Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS

Pennsylvania—The City Council of Philadelphia has authorized this company to elevate its tracks on East Lehigh Ave., from Trenton Ave. to Richmond St., and on Richmond St. to Cumberland St. Estimated cost, $500,000. A. C. Shand, Philadelphia, is Ch. Engr. See item under Miscellaneous.

District of Columbia—Norfolk & Washington R.R.—See item under Virginia.

Virginia—Norfolk, Yorktown & Washington R.R.—Surveys are being made by this company for the construction of its proposed railway to connect Norfolk, Newport News, Hampton, Yorktown and Alexandria, Va., and Washington, D. C. W. H. Edwards, Newport News, is interested.

West Virginia—Cherry River Southern R.R.—Arrangements are being made by this company to award contracts soon for the construction of its proposed railway to connect Curtin and Bays, W. Va.

North Carolina—Kinston-Carolina R.R. & Lumber Co.—Plans are being prepared by this company for the extension of its line from Kinston to Pink Hill, N. C., about 20 miles.

South Carolina—Savannah Western R.R.—The citizens of Manning, S. C., have voted to issue bonds for $10,000 to aid this company in constructing its proposed railway through Manning. C. H. Milligan, Charleston, S. C., is interested. Noted Oct. 1.

North Dakota—Northern Pacific Ry.—Plans are being prepared for this company for the extension of its Cannonball branch to Fort Yates, N. D. W. L. Darling, St. Paul, Minn., is Ch. Engr.

✚**Texas**—Van Horn Valley Land & Ry. Co.—This company has awarded a contract to KING & RUNQUIST, Duluth, Minn., for the construction of a railway from Van Horn, Tex., to the New Mexico boundary.

Texas—Galveston, Harrisburg & San Antonio R.R.—This company plans to reconstruct its lines from San Antonio, Tex., to El Paso, Tex., about 600 miles. I. A. Cottingham, Houston, Tex., is Asst. Gen. Mgr.

✚**Washington**—Northern Pacific Ry.—This company has awarded a contract to W. J. HOY & CO., St. Paul, for grade separation work in Spokane, Wash.

ELECTRIC RAILWAYS

Boston, Mass.—The Boston Elevated Ry. Co. plans to extend its line from Summer St. to the Commonwealth fish piers and Atlantic Ave. Edward Mahler, Boston, is Pur. Agt.

Fitchburg, Mass.—The Fitchburg & Leominster St. Ry. Co. plans the extension of its line in Fitchburg to the Fair Grounds. W. W. Sargent, Fitchburg, is Pres. and Gen. Mgr.

Tuckahoe, N. Y.—According to press reports, plans are being prepared by the Westchester Electric R.R. Co. for the extension of its Mount Vernon-North Pelham line from North Pelham to the New York Central & Hudson River R.R. station in Tuckahoe. William B. Wheeler, Mount Vernon, is Supt.

New Castle, Penn.—The New Castle Electric St. Ry. Co. will extend its lines in New Castle for a distance of about five miles. G. F. Ravenel is Secy.

Phœnixville, Penn.—Arrangements are being made by the Perkiomen Electric Transit Co. for the construction of a trackless trolley system from Phœnixville to Emaus, about 40 miles. James L. Wolcott, Dover, Del., is interested.

✚**Princeton, W. Va.**—The Princeton Power Co. has awarded the contract for the construction of an electric railway from Princeton to Bluefield, about 12 miles, to WALTON & CO., Falls Mills, Va.

Decatur, Ala.—Humphrey Read, Florence, Ala., is interested in the construction of an electric railway to connect Decatur, Huntsville, Athens and Florence.

New Orleans, La.—Plans are being considered by the New Orleans Ry. & Light Co. for the construction of an electric railway in the Seventh Ward in New Orleans. M. S. Sloan, New Orleans, is Gen. Mgr.

Nashville, Tenn.—Plans are being considered by the Nashville St. Ry. Co. for the extension of its Fifth Ave. line in Nashville. A. E. Beazley, Nashville, is Pur. Agt.

Detroit, Mich.—Plans are being prepared by the Detroit United Ry. Co. for the extension of its Kercheval line to Connor's Creek Ave., in Detroit. F. W. Brooks, Detroit, is Gen. Mgr.

Holland, Mich.—It is reported that the Chicago-Michigan Ry. Co. will construct an electric railway from Holland to Allegan.

Bloomington, Ill.—The Bloomington & Normal St. Ry. Co. contemplates the reconstruction of its line on Clinton St., in Bloomington. M. G. Linn, Blomington, is Gen. Supt.

Waukegan, Ill.—The Waukegan, Fox Lake & Western Ry. Co. is preparing to double track its line on Washington St., in Waukegan. Edward J. Block, Highwood, Ill., is Gen Supt.

Eau Claire, Wis.—The Wisconsin-Minnesota Light & Power Co. will soon award contracts for the extension of its line to Mount Tom.

Des Moines, Iowa—Extensive improvements are planned by the Des Moines City Ry. Co. on its Center St. line. F. M. Harris, Des Moines, is Treas. and Pur. Agt.

Aurora, Minn.—The Mesaba Ry. Co. is preparing plans for the extension of its line to Aurora. Work will not be started before the spring. H. S. Newton, Virginia, Minn., is Gen. Mgr.

St. Peter, Minn.—Plans are being considered by the Electric Short Line Ry. Co. for the construction of an electric railway in St. Peter. DeKoven Hunter, Minneapolis, is Gen. Mgr.

St. Louis, Mo.—The United Rys. Co. plans the construction of an electric railway from Wellston to Lindenwood. Robert McCulloch, St. Louis, is Pres., Gen. Mgr. and Pur. Agt.

Brenham, Tex.—W. W. Umbenhause & Co., Philadelphia, Penn., is interested in the construction of a system of interurban electric railways from Brenham to towns in the vicinity.

Houston, Tex.—The Houston Electric Ry. Co. contemplates double tracking its line on Fannin and Travis St., in Houston. David Daly, Houston, is Local Mgr.

Lewiston, Idaho—Plans are being prepared by R. C. Dahlheim and associates for the construction of an electric railway in Lewiston. Noted Oct. 22.

Pocatello, Idaho—Preliminary arrangements are being made by the Pocatello Traction Co. for the construction of an electric railway in Pocatello. J. D. Browning is interested. Noted May 7.

Snohomish, Wash.—The City Council has granted a franchise to the Puget Sound Electric Ry. Co. to extend its line on Main St. in Snohomish. L. H. Bean, Tacoma, is Local Mgr.

Los Angeles, Calif.—The Los Angeles Ry. Corporation has applied to the City Council for a franchise to construct a double-track extension of its line on East First St. C. A. Henderson, Los Angeles, is Asst. Gen. Mgr. and Pur. Agt.

San Lorenz, Calif.—The City Council has granted a franchise to the San Francisco-Oakland Terminal Ry. Co. to extend its line in San Lorenz. A. W. McLimont, Oakland, is Gen. Mgr.

LIGHT, HEAT AND POWER

Greensboro, Vt.—The Greensboro Electric Co. will shortly call for bids for the construction of a hydro-electric plant. M. L. Saunders, White River Junction, Vt., is Engr.-in-Charge.

Rutland, Vt.—F. L. Austin, 240 College St., Burlington, Vt., is preparing plans for an addition to the power house of the House of Correction, Rutland. The building will be of brick, one story, 28x32 ft. J. E. Weeks, Rutland, is Chn. of the Com. in Charge.

Southbridge, Mass.—The Webster & Southbridge Gas & Electric Co. will install a new switchboard, to cost about $4000, in its Southbridge plant. H. S. Shaw, Webster, Mass., is Treas. and Mgr.

New Haven, Conn.—The United Illuminating Co., New Haven and Bridgeport, Conn., has increased its capital stock by $500,000 for the purpose of making improvements in the New Haven plant. R. A. Manwaring, New Haven, is Mgr.

✚**Auburn, N. Y.**—The Empire Gas & Electric Co., of Geneva, has awarded the contract for the foundation of its new 500,000-ft. gas holder at Auburn to the MacARTHUR CONCRETE PILE FOUNDATION CO., New York, N. Y. The contract for the tank has been awarded to the BARTLETT-HAYWARD CO., Baltimore, Md.

★**Bath, N. Y.**—(Official)—Bids will be received until 11 a.m., Nov. 17, by Joseph A. Goulden, Pres. Bd. of Trustees, New York State Soldiers' & Sailors' Home, Bath, for installing electric elevators in the Convalescent Barracks. For further details, see advertisement under "Contracts To Be Let."

Irvington, N. J.—(Official)—We are advised by I. J. Casey, City Engr., that a municipal electric-light plant will not be built in Irvington at the present time. Noted, Oct. 22.

Lansford, Penn.—The Panther Valley Electric Light, Heat & Power Co. has had plans prepared by the Schofield Engineering Co., Commercial Trust Bldg., Philadelphia, for a new one-story brick substation at Lansford.

Walterboro, S. C.—At a recent special election, the citizens voted in favor of a bond issue of $15,000 to be used for the construction of a municipal electric-light plant. Noted Sept. 17.

Melville, La.—All bids received, Oct. 6, for the construction of a municipal electric-light plant were rejected, and new bids will be received until Nov. 3, by the Mayor and City Council. H. S. Joseph, M. D., is Mayor. W. L. Thompson, Boyce, La., is Engr.-in-Charge. Noted Sept. 24 and Oct. 1.

New Orleans, La.—Bids will be received until Nov. 10, by the Board of Control, Louisiana Lepers' Home, for the construction of an electric-light plant for the Home. A 25-kw. generator will be installed. J. J. Powell, 128 New Courthouse Bldg., New Orleans, is Pres. Bd. of Control. Samuel Stone, Jr., 602 Liverpool & London Globe Bldg., is Arch.

West Monroe, La.—The City Council is considering plans for the installation of a municipal light and power plant.

Maysville, Ky.—It is reported that B. L. Baldwin & Co., Perin Bldg., Cincinnati, Ohio, is preparing plans for the construction of a power house for Rohen & Martin, Maysville.

Cleveland, Ohio—The Willard Storage Battery Co. has taken out a permit for the construction of a power house at 280 East 131st St., to cost about $5000. It will be of reinforced concrete, 49x57 ft.

Cleveland, Ohio—Plans are being prepared by F. H. Betz, City Hall, for the construction of a power plant for the city, to cost about $250,000. It will include three one-story buildings, 76x81 ft., 40x85 ft., and 30x85 ft. respectively, and a 1400-ft. tunnel.

Bids will be received until noon, Nov. 4, by the Commissioner of Purchases and Supplies, City Hall, for a motor driven electric hoisting engine for the Department of Public Utilities.

Bids will be received until noon, Oct. 30, by the Commissioner of Purchases and Supplies, City Hall, for substation transformers for the municipal electric light department. F. W. Ballard, 1443 East Third St., is Comr. of the Heat & Light Dept.

Pemberville, Ohio—The Town Council has engaged F. H. Froelich, Second National Bank Bldg., Toledo, Ohio, to prepare plans for the installation of a municipal electric light plant. The town has purchased the distributing lines of Bushman Bros., owners of the local plant, which they closed down a short time ago.

Weyauwega, Wis.—It is reported that Frank H. Josslyn and LeRoy Herrod, Oshkosh, have purchased the property of the Weyauwega Electric Light Co., and will rebuild the plant.

Chariton, Iowa—The Union Co. of Omaha, which lately bought the municipal electric light plant, contemplates building a new generating station about the first of the year, having an output of 1000 kw. Willis Todd, First National Bank Bldg., Omaha, Neb., is Secy. and Mgr.

Virginia, Minn.—C. K. Shand, Arch., has prepared plans, and will receive bids for the construction of a 60x90-ft. power house to cost about $12,000. The building will be fireproof.

Billings, Mont.—The Billings Gas Co. will begin construction work, in the early spring, on a gas holder to have a capacity of 200,000 cu.ft. W. B. Snyder is Gen. Mgr. of the company.

Billings, Okla.—See item under "Water Supply and Irrigation."

Victor, Idaho—It is reported that the City Council is considering the installation of a municipal electric distributing system.

Prescott, Ariz.—The Arizona Hydraulic Power Co. has had plans prepared for its hydro-electric plant on the Upper Verde River. They provide for three units with a development of 12,000 hp. The estimated cost is $1,700,000. The main transmission line will be 80 miles long. Energy from the plant will be furnished to Globe and Miami. The flood waters, after passing through the plants, will be used for irrigation purposes. E. H. Meek is Pres. of the company.

Cathlamet, Wash.—A bond issue of $4200 has been voted, to be used for the construction of the first unit of a municipal electric light plant. Noted Sept. 3 and Sept. 17.

Sequim, Wash.—The City Council has granted a franchise to J. L. Keeler, Sequim, for the installation and operation of a light and power plant. Financial arrangements have been completed, and the construction of the plant will soon be begun.

Alameda, Calif.—The City Trustees have decided to extend the distribution lines of the municipal electric-light plant to Bay Farm Island. Joseph B. Kahn is Ch. Engr.

Fresno, Calif.—The Board of City Trustees and Mayor Alva E. Snow are considering plans for placing all electric wires in the business section of the city in underground conduits.

Los Angeles, Calif.—The Los Angeles Gas & Electric Corporation will extend its gas mains to Lennox Park and Ramona Acres. C. A. Luckenbach, Los Angeles, is Mgr. of Const.

Riverside, Calif.—The San Gorgonio Development Co., Los Angeles, Calif., has begun the construction of two hydro-electric plants near Riverside. They will develop 3000 and 2000 hp. respectively.

Dawson, Yukon Ter., Alaska—It is reported that the City Council is considering the installation of a municipal electric light plant and telephone system, estimated cost, $165,000.

Flesherton, Ont.—It is reported that W. P. Thurston, Flesherton, will soon call for bids for the construction of a hydro-electric system to cost about $30,000.

✚Toronto, Ont.—C. E. Deakin, Montreal, Que., general contractor for the new power plant and boiler house of the Canadian Kodak Co. at Mount Dennis, a suburb of Toronto, has awarded a subcontract for the concrete piles for the foundation of the building to the MacARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y.

BRIDGES

✚Van Buren, Maine—It is reported that the contract for the construction of a bridge over the St. John River, at Van Buren, has been awarded to the VAN BUREN BRIDGE CO., at about $250,000. Noted Jan. 30, 1913.

Brattleboro, Vt.—Plans are being prepared by J. M. Morrison, St. Albans, Vt., Ch. Engr. of the Central Vermont Ry., for the construction of a railroad station and steel viaduct at Brattleboro. Preliminary plans are for a two-story building, 63x75 ft., of native stone, and a viaduct 340 ft. long and 40 ft. wide. The estimated cost of the improvements is $60,000.

Buckland, Mass.—Bids will be received, until Nov. 3, by the State Highway Commission, Boston, for the construction of a reinforced-concrete bridge and approaches at Buckland. Arthur W. Dean, 15 Ashburton Place, Boston, is Ch. Engr.

Albany, N. Y.—Press reports state that tentative plans have been completed for a cantilever bridge over the Hudson River, from Second and Ten Broeck St., Albany, to First and Catherine St., Rensselaer. The bridge, including the approaches, will be 4500 ft. long, the Albany approach being 1500 ft., and the one at Rensselaer 1000 ft. The estimated cost is $2,500,000. John F. Lape, Rensselaer, prepared the plans.

New York, N. Y.—(Borought of Bronx)—(Official)—All bids received Oct. 8, for repairing, cleaning and painting the bridge over the tracks of the New York, New Haven & Hartford R.R. at East 153d St. have been rejected, and new bids for the work will be received about Nov. 10. Noted Oct. 1 and Oct. 22.

✚(Borough of Richmond)—(Official)—The contract for additions and repairs to the Fresh Kills Bridge over Richmond Creek has been awarded to OTTO METZ, 119 Palmetto St., Brooklyn. Noted Oct. 8.

New Castle, Penn.—(Official)—Bids will be received, until 2 p.m., Nov. 10, by Samuel B. Rambo, Supt. of Public Grounds and Buildings, Harrisburg, Penn., for the removal of the old substructure and building a new bridge over the Shenango River at Grant St., New Castle, Lawrence County. Emil Swensson, Frick Bldg., Pittsburgh, is Engr.-in-Charge.

✚Philadelphia, Penn.—(Official)—The contract for the construction of a reinforced-concrete bridge on the line of Glenwood Ave., over tracks of the Philadelphia & Reading Ry., has been awarded to RICHARD WALSH, 5922 Tacony St., Philadelphia, at $26,549. Other bidders were: E. L. Leeds, $31,750; American Paving & Construction Co., $39,250; W. E. Wark Co., $35,996; David Piepler, $34,687; Snare & Triest Co., $36,200; M. & J. B. McHugh, $33,490; James McGraw & Co., $36,570; Thomas R. Henderson, $35,071; James Kelly, $39,400; Francis J. Boyle, $28,925; John McMenamy, $29,800; Carl R. Camp, $33,160. Noted erroneously Oct. 15 as Sherwood Ave. Bridge.

✚Pittsburgh, Penn.—(Official)—The Commissioners of Allegheny County have awarded the contract for the construction of a bridge over Pine Creek, near Alison Park Station, to the FORT PITT BRIDGE WORKS, House Bldg., Pittsburgh, at $15,978. Noted Oct. 8.

Biltmore, N. C.—The Commissioners of Buncombe County, Asheville, have authorized the construction of a bridge over the Swannanoa River at Biltmore to cost about $12,500. Bilt-More Estate will pay $3500, and will loan $6000 to the county, and the Asheville Light & Power Co. will give $3500 toward the cost of its construction. Noted July 30.

✚Rome, Ga.—(Official)—The County Board of Floyd County has awarded the contract for the construction of a concrete bridge over Armuchee Creek, on the Summerville Road, to W. A. HIX, Albertville, Ga., at $5394. Other bids ranged from $6500 to $11,500. Noted Oct. 8.

Olga, Fla.—The War Department has authorized the Board of Commissioners of Lee County, Fort Myers, to construct a bridge across the Caloosahatchee River, at Olga, and bids for the work will soon be received. Noted Mar. 26.

Vicksburg, Miss.—(Official—Bids will be received, until noon, Nov. 3, by J. D. Laughlin, Chancery Clk. of Warren County, for the construction of a 520-ft. steel bridge over the Big Black River, near the Alabama & Vicksburg Ry., at Holt's Ferry. W. F. King is Asst. Engr. Noted Oct. 22 under Jackson, Miss.

Yazoo City, Miss.—Bids will be received, until Nov. 2, by the Board of Supervisors of Yazoo County, for the construction of a bridge over Piney Creek. S. S. Griffin is Chancery Clk.

New Orleans, La.—The Public Belt R.R. of New Orleans plans to build a bridge over the canal at Florida and Convent Ave. The estimated cost is $15,000. W. J. Hardee is Ch. Engr.

✚The city has awarded the contract for the construction of a reinforced-concrete bridge over the London Ave. Canal, at Gentilly Road, to W. J. NEVILLE, at $7995.

✚New Orleans, La.—The Department of Public Finance awarded the contracts for the construction of two bascule bridges to the MIDLAND BRIDGE CO., Kansas City, Mo. One of these, of the Strauss type, with plate-girder span, is already under construction. The other one, of the Scherzer type, has not yet been begun. Noted June 18 and July 23.

Chattanooga, Tenn.—(Official)—Bids were received, Oct. 22, by the Tennessee River Bridge Committee for the concrete subsctructure of the new Market St. Bridge over the Tennessee River from: The Vang Construction Co., Cumberland, Md., $342,491; Mason & Hilton, $374,069; T. L. Eyre, Philadelphia, $387,961; Missouri Valley Bridge & Iron Co., $422,826; M. C. Monday & Co., Knoxville, $426,381; George A. Fuller Co., New York, N. Y., $459,795. The lowest bid for the bascule span was that of the Toledo Bridge & Crane Co., at $119,096. Noted Sept. 3 and Sept. 17.

Knoxville, Tenn.—The County Road Commissioners of Knox County will soon call for bids for the construction of three bridges. John L. Callaway is Clk. of the Comrs.

Cleveland, Ohio—(Official)—The question of a bond issue for $5,000,000, to be used for the construction of a high-level bridge across the Cuyahoga River, from Lorain Ave. to Ontario Ave., will be submitted to the voters of Cuyahoga County at the general election on Nov. 3. Frank T. Andrews is Chn. of the Bd. of County Comrs.

(Official)—Bids will be received, until 10 a.m., Nov. 19, by the Board of Commissioners of Cuyahoga County, for bridge work, Report No. 3396. W. A. Stinchcomb is County Audr. E. G. Krause is Clk. of Comrs.

Miamisburg, Ohio—(Official)—Bids will be received, until 10 a.m., Nov. 6, by the Board of Commissioners of Montgomery County, Dayton, for the construction of the steel superstructure of Bridge No. 241, over the Great Miami River, at Linden Ave., Miamisburg. It will have six spans, three each of 160 ft. and 60 ft., respectively. Walter H. Aszling, Dayton, is Secy. of the County Comrs.

✚West Carrollton, Ohio—The Commissioners of Montgomery County, Dayton, have awarded the contract for the concrete work on the new bridge at Cedar St., West Carrollton, to A. H. MANNING, at $7.15 per cu.yd. Noted Oct. 1 and Oct. 22.

Columbus, Ind.—The Commissioners of Bartholemew County have rejected all bids received for the construction of the Clifty Bridge, on the Hartsville Pike, east of the city, and will receive new bids until Nov. 13. It is reported that the Board has decided to build a single span of 200 ft.

Fort Wayne, Ind.—(Official)—Bids will be received, until 10 a.m., Nov. 19, by the Board of Commissioners of Allen County for the construction of a bridge over the St. Mary's River, at Harrison St., Fort Wayne. Calvin H. Brown is County Audr.

✚Danville, Ill.—The Commissioners of Vermilion County have awarded the contract for the construction of the Wallace Chapel Bridge over Blue Grass Creek to the EAST ST. LOUIS BRIDGE CO., East St. Louis, Ill., at $4198.

✚Madison, Wis.—(Official)—The State Highway Commission has awarded the contract for the construction of a bridge in the Town of Dewey, Rusk County, to the WORDEN-ALLEN CO., Milwaukee, at $10,492. Noted Oct. 22.

St. Paul, Minn.—Plans have been completed for the bridge across the Mississippi River, to replace the one now used by the Omaha and St. Paul railways. The preliminary estimate of the cost of the work is from $200,000 to $300,000. The War Department has granted permission for the construction of the bridge, and as soon as methods of financing can be arranged, the work will be begun.

Junction City, Kan.—(Official)—Bids will be received until noon, Nov. 5, by the County Clerk of Geary County, for the construction of a reinforced-concrete bridge over a branch of McDowell Creek, at Briggs Crossing, Winfield Township. J. G. Furrow is Chn. of the County Comrs.

Lincoln, Kan.—(Official)—Bids will be received until noon, Nov. 7, by the Board of Commissioners of Lincoln County, for the construction of four bridges from 20 to 32 ft. long. W. W. Dehler is Chn. of Bd. of Comrs. C. E. Booze is County Clk.

Wichita, Kan.—(Official)—Bids will be received until noon, Nov. 9, by W. J. McLean, City Clk., for the construction of a reinforced-concrete bridge over the Little Arkansas River, between Central and South Riverside Parks. It will consist of six 35-ft. spans, with a 20-ft. roadway and two 5½-ft. walks. The estimated cost is $15,000. Bert C. Wells is City Engr. Noted July 23 and Aug. 13.

✚Nebraska City, Neb.—The Commissioners of Otoe County have awarded the contract for filling of wings and bridges and grading on the North Eighth and North 16th St. Bridges to FRANK THOMAS, Nebraska City, at 18c. and 22c. per cu.yd. Noted Oct. 8.

Billings, Mont.—(Official)—The question of a bond issue of $77,000 for the construction of two bridges will be submitted to the voters of Yellowstone County at the regular general election on Nov. 3. H. E. Howell is Deputy County Clk.

Wynne, Ark.—(Official)—Drainage District No. 3, of Cross County, will build about 30 bridges in connection with other improvements in the district. No definite time has been set for receiving bids on account of uncertain financial conditions. Each bidder will furnish his own plans for bridges, which will be of steel. W. S. Newsom is Asst. Engr. Noted Oct. 15.

✚Coleman, Tex.—The Commissioners Court of Coleman County has awarded the contract for the construction of three county bridges to the A. L. GREENBURG IRON CO., Terre Haute, Ind., at $6300.

✚San Antonio, Tex.—The Commissioners Court of Bexar County has awarded the contract for the construction of a concrete bridge over Zarzamora Creek to the TOPEKA BRIDGE & IRON CO., at $17.10 per cu.yd.

Uvalde, Tex.—The Commissioners Court of Uvalde County will soon ask bids for the construction of a concrete bridge over the Nueces River, on the Eagle Pass Rd., about eight miles from Uvalde.

✚Durant, Okla.—The Commissioners of Bryan County have awarded the contract for the construction of two steel bridges over the Blue River to the MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan. Each will be 100 ft. long. Varner Stinson is County Engr.

Anthony, N. M.—The Board of Commissioners of Dona Ana County, Las Cruces, contemplates building a new bridge over the Rio Grande River at this point.

San Marcial, N. M.—Plans are being prepared by James A. French, Santa Fé, N. M., State Engr., for a steel bridge to be built across the Rio Grande River, at San Marcial. The estimated cost is $15,000.

✚Colfax, Wash.—The Commissioners of Whitman County have awarded the contract for the construction of a bridge at Colfax to the A. G. BEAGLE CO., Spokane, at $7550; the contract for a bridge at Elberton was awarded to CHARLES G. HUBER, Seattle, at $6450. Both will be of reinforced concrete. Noted Sept. 17.

Chico, Calif.—The Board of Supervisors of Butte County, Oroville, has authorized the construction of a bridge over Mud Creek, on Reading Ave., near Chico. M. C. Polk, Chico, is County Engr.

✚Santa Barbara, Calif.—The City Trustees have awarded contracts for the construction of two reinforced concrete bridges on the East Blvd. to: MUNOZ & MUNOZ, 800 Central Bldg., Los Angeles, at $11,324 for the bridge over Salinas Creek; BOARDMAN CONSTRUCTION CO., 1107 Story Bldg., Los Angeles, at $11,890 for the bridge over Aliso Creek. Noted Oct. 1.

✚Visalia, Calif.—The Board of Supervisors of Tulare County has awarded the contract for the construction of two bridges over Deer Creek, near Porterville, to the PARLIER CONSTRUCTION CO., Tulare, at $4276. Noted Oct. 8.

✚London, Ont.—The contract for the construction of a reinforced-concrete bridge across Second St. has been awarded by the City Council and the County of Middlesex to McKAY & WEBSTER, Toronto, at about $14,300. William N. Ashplant, City Engr., has charge of the work.

WATER SUPPLY—IRRIGATION

Pittsfield, Mass.—The Aldermen have voted an appropriation of $10,000 for extending water mains from Pontoosuc Lake station to Lanesboro line. J. P. Barnes is Chn. Bd. of Pub. Wks.

Warwick, R. I.—The citizens contemplate installing a water system.

Lindenhurst, N. Y.—Plans have been prepared by for the installation of a water system, including a filtration plant. W. E. Sexton, Mineola, is Engr. The estimated cost is about $70,000.

Mayville, N. Y.—The citizens voted in favor of issuing $9700 in bonds for the improvement of the water system and electric-light plant. W. H. Scofield is Clk.

Tamaqua, Penn.—Plans have been prepared by John H. Lance, Wilkes-Barre, for the construction of a reservoir at Owl Creek. The estimated cost is $69,000.

Oswego, N. Y.—The Department of Water has authorized the laying of water mains in Lyon and Ohio St. F. W. Ormsby is Supt.

Perrysburg, N. Y.—(Official)—Bids will be received by the Commissioner of Public Works, Municipal Bldg., Buffalo, until 11 a.m., Nov. 2, for laying a c.-i. water pipe line connecting the new reservoir with the main building of the J. N. Adam Memorial Hospital, Perrysburg. Francis G. Ward is Comr.

✚★Riverhead, N. Y.—The contract for constructing a water system has been awarded to WILLIAM G. FRITZ CO., Newark, N. J., at $79,000. Bids opened Aug. 25. Noted Aug. 13.

Morristown, N. J.—The Whippany Water Co., Morristown, has been incorporated by B. Dickson and will furnish water to Hanover Township.

Barnesboro, Penn.—Plans for the construction of a water system and reservoir for Barnesboro are being prepared.

Pittsburgh, Penn.—The Department of Public Works contemplates installing centrifugal pumps, estimated to cost $50,000.

Frederick, Md.—William H. Boardman, Consult. Engr., Philadelphia, Penn., has been retained by the city to make recommendations about the water supply. A storage reservoir to cost $100,000 is included.

Norfolk, Va.—The city is taking steps to either buy or condemn water sites for the proposed improvement to its water system. Thomas B. Dornin is Engr. in charge of the Water Dept.

✚Tryon, N. C.—The contract for constructing a water system has been awarded to A. H. GUION & CO., Gastonia. G. H. Holmes is Engr. Noted Aug. 6.

★Columbus, Ga.—(Official)—Bids will be received by the Board of Water Commissioners until 3 p.m., Nov. 17, for constructing a water system. J. L. Ludlow, Winston-Salem, N. C., is Engr. For details see advertisement under "Contracts to Be Let." Noted Sept. 3.

Manchester, Ga.—J. N. Hazelhurst & Sons, Engrs., Atlanta, have made surveys for the construction of water and sewer systems, estimated to cost $40,000. The citizens will vote on the question of issuing bonds for this purpose. Noted Aug. 27.

Gulfport, Miss.—Bids will be received until Nov. 3 by E. W. Wells, Clk., for installing a water system. Noted Oct. 22.

New Orleans, La.—Bids will be received, until noon, Nov. 10, by the Board of Control, Louisiana Leper Home, Room 128, New Court House Bldg., for boilers, engines, pumps, water supply and sewer system for the Louisiana Leper Home, Iberville Parish. S. Stone, Jr., 602 Liverpool, London & Globe Bldg., New Orleans, is Arch.

West Monroe, La.—Bids will be received until Nov. 14 for enlarging the water system and constructing an electric-light plant. N. G. Tippit is Mayor.

Charleston, Tenn.—The Charleston Water Co. has been organized by J. N. Moore and E. A. Edwards. The company will construct a water system.

Covington, Ky.—An election will soon be held to vote on the question of issuing $200,000 in bonds, the proceeds of which to be used for the improvement of the water system. Noted May 21.

Cincinnati, Ohio—J. A. Hiller, Supt. of the Water Works, has been directed by the Board of Control to prepare plans for the relining of the Eden Park reservoir. The estimated cost is $57,000.

Cleveland, Ohio—Plans are being prepared by R. Winthrop Pratt, 708 Hippodrome Bldg., Cleveland, for a pumping station for the city. The estimated cost is $100,000.

Greenville, Ohio—The citizens voted against the question of issuing $80,000 in bonds for the installation of a filtration plant. Noted Sept. 17.

Springfield, Ohio—(Official)—Bids will be received, until 4 p.m., Nov. 16, by J. M. Pierce, County Audr., for installing a water system at the new county infirmary in Bethel Township.

Trotwood, Ohio—Bids will be received by John E. Fox, Clk., Bd. of Pub. Affairs, until 2 p.m., Oct. 30, for extending the water system.

Bloomington, Ind.—The preparation of plans has been authorized by the Mayor and Council, according to press reports, for the construction of a pipe line from White River to Bloomington.

Manistique, Mich.—All bids received Oct. 8 for constructing a gravity pipe line have been rejected. Alvord & Burdick, Hartford Bldg., Chicago, Ill., are the Engrs.

Hinsdale, Ill.—(Official)—Bids will be received until Nov. 16 by the Village Board for installing a water softening plant with appurtenances. C. B. Wiliams, 54 West Randolph St., Chicago, is Engr.

Joliet, Ill.—The lowest bid received by the Council for the construction of the new reservoir exceeded the appropriation of $18,000. The Finance Committee is undecided whether to increase the appropriation or to build a less expensive reservoir. Noted Oct. 1.

Paris, Ill.—The Council contemplates spending $90,000 to enlarge the reservoir.

Stronghurst, Ill.—The citizens voted to issue bonds for $12,000, the proceeds of which will be used for the construction of a municipal water system.

Sullivan, Ill.—Plans are being prepared for the construction of a water system. C. L. James is Consult. Engr. Noted Aug. 13.

Viola, Ill.—Plans are being prepared by Terhune & Horton, Engrs., 401 Central National Bank Bldg., Peoria, for the installation of a water system. Noted Oct. 8.

South Stillwater, Minn.—Bids will be received, until 8 p.m., Oct. 31, by Oscar Humhke, for drilling an artesian well.

Fort Scott, Kan.—An election will be held in January, to vote on the question of issuing bonds for $30,000, the proceeds of which will be used for the construction of a reservoir. Noted Aug. 20.

Sioux Falls, S. D.—The citizens voted in favor of issuing bonds for $135,000 for the extension of the water system. Noted Oct. 15.

✚Baker, Mont.—The contract for installing a water system has been awarded by the city to SECURITY BRIDGE CO., at $23,468.

Caruthersville, Mo.—The citizens will vote on the question of issuing bonds for the installation of a water system. Frank L. Wilcox, Syndicate Bldg., St. Louis, is Engr.

Kansas City, Mo.—The city is having plans and specifications prepared for the installation of a new pumping engine for the low-service pumping station of the water-works. Burton Lowther is Ch. Engr. of the Water Bd.

Galveston, Tex.—The Anahuac Canal Co. has been organized by Thomas S. Ellis, L. R. Miller and John Wooten, with a capital of $100,000. The company will construct an irrigation system in the Anahuac district.

The city contemplates extending the salt water mains. Estimates are now being prepared. A. T. Dickey is City Engr.

Billings, Okla.—Bids will be received by the City Clerk, until Oct. 29, for the construction of a water system and electric-light plant. The estimated cost is $30,000. E. T. Archer & Co., Kansas City, Mo., is the Engr. Noted Oct. 2, 1913.

Mangum, Okla.—The citizens voted in favor of issuing $100 000 in bonds for the construction of a water pumping plant, electric-light system and ice plant.

Shoshone, Idaho—No bids were received by Harry W. Anderson, Clk., for the purchase of $18,000 in bonds, the proceeds of which would have been used for the improvement of the municipal water system. Noted Sept. 17.

Weiser, Idaho—The landowners in the East Weiser Irrigation District have voted $16,000 in bonds, the proceeds of which will be used for irrigation in the "Old Town" section.

Yuma, Ariz.—The landowners of the Cibola Valley, north of Yuma, have organized an irrigation district and voted bonds for $782,975. The proceeds will be used for the construction of an irrigation system to water about 18,000 acres.

Chehalis, Wash.—The City Commission plans to spend $19,000 for the extension of the water system.

Hood River, Ore.—Andrus & Bode Co., Portland, was low bidder at $19,160 for reconstructing the headworks at the intake of the East fork of the Hood River for the East Fork Irrigation District. Georg R. Wilbur is Secy.

Salem, Ore.—The application of the Goose Lake Valley Irrigation Co. for the construction of an irrigation project to water 46,000 acres has been approved by John H. Lewis, State Engr.

Oakdale, Calif.—At a recent election, bonds for the completion of the Oakdale Irrigation District were voted. Noted Aug. 27.

Oceanside, Calif.—The Oceanside Mutual Water Co. has recently been incorporated with a capital of $100,000. W. G. Kerchoff is interested.

Sunnyvale, Calif.—According to press reports bids will be received by the Town Clerk until Nov. 2 for the installation of a water system.

Venice, Calif.—The city contemplates spending about $35,000 for the extension of the salt water mains and for the improvement of the sewer system.

St. John, N. B.—The City Council has authorized the laying of 7000 ft. of water mains at an estimated cost of $18,000. R. W. Wigmore is Water and Sewerage Comr.

SEWERS

Boston, Mass.—Bids will be received, until Oct. 30, by the Public Works Department, for constructing sewers in West St., Hyde Park, and in Washington St., West Roxbury District. L. K. Rourke is Comr.

Milford, Mass.—The question of appropriating $8000 for the construction of a new syphon for the sewer system will be voted on at the November election. F. A. Barbour is Engr.

New Rochelle, N. Y.—The City Council has had plans prepared and will submit them to the State Board of Health for the construction of a sewage disposal plant. John Hadert is Comr. of Pub. Wks.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres. of the Borough of Brooklyn, until 11 a.m., Nov. 6, for constructing a sewer in East Seventh St. and in New Lots Ave.

(Borough of Brooklyn)—(Official)—The lowest bid received Oct. 26, for dismantling one boiler in the Ridgewood North side pumping station and one boiler in the Jamaica pumping station No. 2 and transporting them to the Jamaica pumping station No. 1, was that of Dover Boiler Works, at $4778. Noted Oct. 22.

Rome, N. Y.—Plans are being prepared by Charles W. Knight & Son, Rome, for the construction of a sewage disposal plant. The work is under the supervision of Herring & Gregory, New York.

Schenectady, N. Y.—The Board of Contract and Supply has authorized the construction of sewers in Foster Ave., Florence St. and Veeder Ave. John H. Bolan is City Clk.

✚The contract for constructing sewers in 14 streets has been awarded to THOMAS R. CRANE, at $8054.

Syracuse, N. Y.—The Council has authorized the construction of a sewer in Dillaye Ave. The estimated cost is about $6000. W. T. Wooley is City Engr.

Hackensack, N. J.—Bids will be received by the City Commission, until Dec. 7, for constructing a sanitary sewer system and disposal plant. Fred J. Thomson is City Clk.

Montclair, N. J.—The Council has authorized the construction of a trunk sewer on the east side of Upper Montclair. The estimated cost is $30,000. E. S. Closson is Engr.

Pitman, N. J.—The Council contemplates constructing a municipal sewer system.

★Red Bank, N. J.—(Official)—Bids will be received by the Mayor and Council until 8 p.m., Nov. 2, for installing a sewage ejector or lift at the Armory, Red Bank. A. C. Harrison is Borough Clk.

Verona, N. J.—The Council contemplates constructing a sewer system.

Beaver, Penn.—The Council has been advised by James P. Leaf, Engr., Rochester, N. Y., to construct a storm water sewer at an estimated cost of $10,000.

Chester, Penn.—Bids are being received for the construction of a sewer in Fourth St. and two sewers in Seventh and New Market Sts. John H. Mirkill is City Clk.

✚Philadelphia, Penn.—Contracts have been awarded to DAVID PEOPLES, 505 Parkway Bldg., Philadelphia, for constructing sewers in Haverford Ave., at $22,543; in 34th St., at $36,156, and in Venango St., at $28,625.

Pittsburgh, Penn.—(Official)—Bids will be received, until 10 a.m., Nov. 2, by the City Controller for constructing sewers in Brashear St., Southern Ave., Soffel St., Standard St. and Cranby Alley, Kennedy Ave., Northumberland St. and Whitney St. Robert Swan is Dir., Pub. Wks.

Portvue (McKeesport post office), **Penn.**—(Official)—Bids will be received by the Borough until 8 p.m., Nov. 4, for constructing a sewer system. Deveaux H. Reed is Secy. Noted Oct. 22.

Royersford, Penn.—Plans will be prepared by Herbert G. Hatton, Engr., for the construction of a sewer system for Royersford.

Kinston, N. C.—Bonds for $10,000 for making extensions to the sewer system and other improvements have been sold. F. I. Sutton is Mayor. Noted Mar. 27, 1913, and July 9, 1914.

Manchester, Ga.—See item under "Water Supply and Irrigation."

Canton, Ohio—Bids will be received by the City Council, until Nov. 9, for constructing a storm sewer in 19th St.

Cleveland, Ohio—Bids will be received by the Commissioner of Purchases and Supplies, Room 513, City Hall, until Nov. 5 for constructing sewers in East 105th and West 38th St., Elizabeth and Continental Ave. Robert Hoffman is City Engr.

Conneaut, Ohio—(Official)—Bids will be received by S. W. Mahaffey, Dir. Pub. Ser., until noon, Nov. 14, for constructing a sewerage system and sewage treatment plant for the Grandview Ave. Allotment.

Springfield, Ohio—(Official)—Bids will be received by Charles E. Ashburner, City Mgr., until noon, Nov. 2, for constructing a sewer in North St. from Limestone to Foster St., and in Spring St. from North St. to Buck Creek.

Michigan City, Ind.—(Official)—Bids will be received by the Board of Public Works, until 10 a.m., Nov. 10, for constructing a sewer in Michigan St.

Ames, Iowa—(Official)—Bids will be received by A. B. Maxwell, City Clk. until 7:30 p.m., Nov. 2, for constructing a storm sewer in District No. 1.

✚Atlantic, Iowa—A contract for constructing sanitary sewers has been awarded to C. B. REYNOLDS, Council Bluffs at $5024. Noted Sept. 17.

Waukon, Iowa—At a recent election the citizens voted in favor of issuing $25,000 in bonds for the installation of a sewerage system. Noted Oct. 1.

✚Proctor, Minn.—Bids were received, Oct. 12, by the Village Council, for (a) sewer system, (b) disposal plant: WHITNEY BROS. & STACK CO., Duluth, (a) $29,987, (b) $13,031 (awarded contract); King & Runquist, Duluth, (a) $35,010, (b) $17,120; E. A. Dahl Co., Duluth, (a) $41,709, (b) $13,400; P. McDonnell, Duluth, (a) $49,045, (b) $9264. Noted Oct. 1.

Hutchinson, Kan.—(Official)—Bids will be received by the Board of Commissioners, until 3 p.m., Nov. 6, for constructing an intercepting outlet sewer. Edward Metz is City Clk. Noted Oct. 1.

Olathe, Kan.—Bids will be received by the City Clerk, until Nov. 3, for constructing main sewer No. 3, lateral sewers Nos. 1 and 2, in Sewer District No. 3, and lateral sewer No. 11 in Sewer District No. 1. Roy Murray is City Engr.

Grand Forks, N. D.—(Official)—Bids will be received, until 4 p.m., Nov. 2, for constructing a lateral sewer in District No. 10, and for extending lateral sewer No. 9 in District No. 5. W. H. Alexander is City Audr.

Wahpeton, N. D.—Bids will be received by E. M. Murray, City Audr. until 7:30 p.m., Nov. 2, for constructing a sewer extension in Seventh St.

Roundup, Mont.—Bids will be received by Claude A. Renshaw, City Engr., until Dec. 7, for the sale of $20,000 in bonds, the proceeds of which will be used for constructing a main sewer and disposal plant. Noted Sept. 1.

Argenta, Ark.—Bids will be received, until Nov. 5, for constructing sewers in Sewer District No. 1. The estimated cost is $300,000. Lund & Hill, Little Rock, Ark., are Engrs.-in-Charge.

Georgetown, Tex.—An expenditure of $20,000 is contemplated by the city for constructing sewers.

✚Uvalde, Tex.—A contract for constructing sewers has been awarded to the O'NEIL ENGINEERING CO., Dallas, Tex.

✚Bartlesville, Okla.—A contract for constructing a number of sewers has been awarded to W. F. POWERS, Guthrie, at approximately $10,000.

✚Haskell, Okla.—A contract for constructing a sewer system, including disposal plant, has been awarded to J. K. ROSCH & SON, Tulsa.

✚Boise, Idaho—The contract for constructing the South Boise sewer system has been awarded to the IDAHO HARDWARE & PLUMBING CO., Boise, at $64,336.

Cathlamet, Wash.—(Official)—Bids were received, Oct. 19, by the City Council, for constructing a sewer system, as follows: Keating & O'Neil, $8096; R. D. Crow, $11,378; C. G. Randler, $10,444; James Kennedy Contracting Co., $9341. No award will be made until the validity of the bonds is passed on. Noted Sept. 17 and Oct. 15.

✚Spokane, Wash.—A contract for constructing sewers has been awarded to JAMES BROAD at $19,465. Other bids were: J. W. Hosford, $21,597 and P. L. Langan, $20,949. Noted Oct. 8.

Portland, Ore.—George Gordon submitted the lowest bid, at $6187, for constructing a sewer in East 74th St. from Thornburn Ave. to East 72d St.

John R. Hansan, City Engr., has prepared plans for rebuilding 400 ft. of sewer on East Alder St. from East Second St. to the river, at an estimated cost of $10,000.

✚Bakersfield, Calif.—A contract for constructing sewers in Districts Nos. 20 and 21 has beeen awarded to E. C. HAMLIN, San José.

Holtville, Calif.—An expenditure of $30,000 is contemplated by the city for constructing a sewerage system.

✚Los Angeles, Calif.—The contract for constructing a sewer in Brent and other streets has been awarded to LEO MILETICH, at $50,000.

Sacramento, Calif.—The City Commission has rescinded its decision to award the contract for the construction of units A and B of the trunk line sewers to the Matthews Construction Co., and will shortly call for new bids. The work will cost about $40,000.

✚Santa Barbara, Calif.—A contract for improving the Valerio and Hollister St. section of the main sewer has been awarded to F. R. RITCHIE CO., San Francisco, at approximately $90,000.

Santa Rosa, Calif.—Bids will soon be received by the City Council for constructing 14,400 ft. of sewers.

GARBAGE

Buffalo, N. Y.—The city is having plans prepared for a garbage and refuse disposal plant to be erected at the foot of Massachusetts Ave. The estimated cost is $100,000. Howard L. Beck is the Arch. Francis G. Ward is Comr. Pub. Wks.

Philadelphia, Penn.—The only bid received for the 1915 contract for garbage removal was that of the Penn Reduction Co., at $323,588. Bids will be received until Nov. 6 by the Director, Department of Public Works, for (Schedule A) cleaning of streets, roads, alleys, inlets and markets for the year 1915 and all work incidental thereto; (Schedule B)—collection and disposal of ashes and rubbish for the year 1915 and all work incidental thereto.

STREETS AND ROADS

Boston, Mass.—Bids will be received by the Public Works Department, until Oct. 30, for pavements and roadways on Castlegate Rd., Dorchester, and Lockwood St., Hyde Park District. L. K. Rourke is Comr.

Bids will be received until Nov. 3, by the State Highway Commission, for the construction of 14,000 lin.ft. of road in Williamsburg and 9000 lin.ft. in Montague. Arthur W. Dean, 15 Ashburton Pl., is Ch. Engr.

✚The contract for building 8600 lin.ft. of state road in Sheffield has been awarded by the State Highway Commission to B. PERINI & CO., Ashland, at $7580. Other bids were: O. W. Benedict, Pittsfield, $7753; H. I. Geer, $7777; Lindholm & Cobb, $8652; S. W. Menaquale & Co., $8656; Columbus Contracting Co., $9196; M. L. Camarco, $9280; C. D. Cunningham, Cheshire, $9756; E. J. Rourke, $9878; Way & Cellllll, $10,002; Horne-Lowe Contracting Co., Millbury, $10,411; Robinson & Co., Westfield, $10,529; New England Construction Co., Worcester, $10,667; W. J. Racco, Southbridge, $10,725; R. J. Hudson, $11,259; Lane Construction Co., Meriden, Conn., $11,437; Hyde, Crowe & Walsh, $11,677; John de Michiel, Torrington, Conn., $11,835.

Hartford, Conn.—Bids were received by the State Highway Commissioner, Oct. 21, for the following road work:

Preston Township—About 4990 lin.ft. (a) native stone macadam, (b) gravel, on the Norwich-Westerly Turnpike. Estimated quantities: 4800 cu.yd. earth grading, 150 cu.yd. borrowed embankment, 325 cu.yd. rock excavation, 40 cu.yd. wet excavation, 5760 sq.yd. 7-in. macadam and 2000 sq.yd. 4-in. macadam, or 7760 sq.yd. 8-in. gravel surface, 580 tons trap rock screenings, 140 cu.yd. native stones in piles, 2000 sq.yd. telford base, 7 cu.yd. first-class concrete, 10 cu.yd. second-class concrete, 635 lb. steel beams and reinforcement, 100 cu.yd. new masonry, 70 cu.yd. new dry rubble masonry, 30 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 15 lin.ft. gas pipe railing, 155 lin.ft. corrugated iron pipe culverts, one standard catch basin, 100 sq.yd. cobble gutter, 1000 lin.ft. rubble drain, 1930 lin.ft. removing and replacing stone walls and fences, 100 lin.ft. new stone wall, 100 lin.ft. new wire fence, 10 sq.yd. turf relaid, 50 cu.yd. sand fill, 50 cu.yd. crushed stone fill, 3880 gal. of liquid asphalt or asphaltic flush coat in place and covered—Ahern Construction Co., Willimantic, Conn., (a) $15,047, (b) $13,406; Olin T. Benedict, Pittsfield, Mass., (a) $14,691, (b) $12,779; Bristow Bros., & Knowles Corporation, Narragansett Pier, R. I., (a) $13,344; Frank A. Wilcox, Norwich, Conn., (a) $13,675, (b) $10,851; A. Brazos & Sons, Middletown, Conn., (a) $14,448, (b) $10,987; A. Vito Construction Corporation, Thompson, Conn., (a) $13,279; Goodman & Trumbull Co., Litchfield, Conn., (a) $14,873; A. D. Bridge's Sons, Inc., Hazardville, Conn., (a) $12,311.

Sterling Township—About 5480 lin.ft. (a) native stone macadam, (b) gravel, on the Plainfield Road. Estimated quantities: 2980 cu.yd. earth grading, 50 cu.yd. borrowed embankment, 620 cu.yd. rock excavation, 70 cu.yd. wet excavation, 8025 sq.yd. 7-in. macadam and 500 sq.yd. 4-in. macadam, or 8525 sq.yd. gravel surfacing, 635 tons trap rock screenings, 155 cu.yd. native stone in piles, 500 sq.yd. telford base, 4562 gal. liquid asphalt or asphaltic flush coat in place and covered, 15 cu.yd. first-class concrete, 10 cu.yd. second-class concrete, 1300 lb. steel beams and reinforcement, 50 cu.yd. new masonry, 10 cu.yd. new dry rubble masonry, 50 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 25 lin.ft. gas pipe railing, 260 lin.ft. corrugated iron pipe culvert, 1000 lin.ft. relaying old pipe, 4 standard catch basins, 100 sq.yd. cobble gutters, 400 lin.ft. rubble drain, 150 lin.ft. removing and replacing stone walls or fences, 100 lin.ft. new stone wall, 100 lin.ft. new wire fence, 10 sq.yd. turf relaid, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill—A. D. Bridge's Sons. Inc., Hazardville, Conn., (a) $9981, (b) $8619; Goodman & Trumbull Co., Litchfield, Conn., (a) $11,786; A. Vito Construction Corporation, Thompson, Conn., (a) $12,833; Joseph McCormack, East Providence, R. I., (a) $13,242, (b) $11,322; Ahern Construction Corporation, Willimantic, Conn., (a) $13,588, (b) $12,011; Olin T. Benedict, Pittsfield, Mass., (a) $12,716, (b) $9987; John de Michiel & Bro., Torrington, Conn., (a) $13,164, (b) $9510; Bristow Bros. & Knowles Corporation, Narragansett Pier, R. I., (a) $12,719.

Coventry Township—About 4700 lin.ft. native stone macadam on the South Coventry Road. Estimated quantities: 590 cu.yd. earth grading, 3180 cu.yd. borrowed embankment, 25 cu.yd. rock excavation, 5855 sq.yd. 7-in. macadam and 2500 sq.yd. 4-in. macadam, 630 tons trap rock screenings, 135 cu.yd. native stone in piles, 2500 sq.yd. telford base, 4177 gal. liquid asphalt or asphaltic flush coat in place and covered, 10 cu.yd. second-class concrete, 10 cu.yd. new masonry, 10 cu.yd. new dry rubble masonry, 10 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 220 lin.ft. corrugated iron pipe culvert, one standard catch basin, 100 sq.yd. cobble gutter, 1000 lin.ft. rubble drain, 100 lin.ft. removing and replacing stone walls or fences, 100 lin.ft. new stone walls, 100 lin.ft. new wire fence, 50 cu.yd. sand or gravel fill, 50 cu.yd. crushed stone fill—A. D. Bridge's Sons, Inc., Hazardville, Conn., $11,566; Goodman & Trumbull Co., Litchfield, Conn., $12,340; Ahern Construction Co., Willimantic, Conn., $13,086; A. B. Cadwell, New Britain, Conn., $12,790; Olin T. Benedict, Pittsfield, Mass., $12,627; Bristow Bros. & Knowles Corporation, Narragansett Pier, R. I., $12,204; A. Brazos & Sons, Middletown, Conn., $13,155.

Danbury Township—11,777 lin.ft. (a) trap rock macadam, (b) gravel, (c) plain concrete washed sand, (d) plain concrete unwashed sand, (e) rocmac or (f) hassam pavement, on Lake Ave.; 7660 cu.yd. earth grading, 50 cu.yd. borrowed embankment, 800 cu.yd. rock excavation, 17,440 sq.yd. 7-in. macadam and 3500 sq.yd. 4-in. macadam, or 20,940 sq.yd. gravel, or 4070 cu.yd. concrete, or 20,940 sq.yd. rocmac pavement, 170 cu.yd. trap rock in piles, 2500 sq.yd. telford base, 10,470 gal. liquid asphalt or asphaltic flush coat in place and covered, 20,940 sq.yd. steel reinforcement, 51 cu.yd. first-class concrete, 10 cu.yd. second-class concrete, 13,470 lb. steel beams and reinforcement, 210 cu.yd. new masonry, 10 cu.yd. dry rubble masonry, 200 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 80 lin.ft. gas pipe railing, 730 lin.ft. corrugated iron culverts, four standard catch basins, 1200 sq.yd. cobble gutters, 1400 lin.ft. rubble drain, 5500 lin.ft. removing and replacing stone walls, 100 lin.ft. new stone wall, 100 lin.ft. new wire fence, 10 sq.yd. turf relaid, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill—B. D. Pierce, Jr., Co., Bridgeport, Conn., (a) $33,387, (b) $26,619, (c) $47,768, (d) $46,792; John de Michiel & Bro., Torrington, Conn., (a) $27,783, (b) $21,737, (c) $35,984, (d) $34,886, (e) $37,651; Leonardo Suzio, Meriden, Conn., (a) $33,600, (b) $26,763, (c) $41,493, (d) $40,679; H. Sanford Osborn, Redding Ridge, Conn., (a) $29,506, (b) $24,631, (c) $41,082, (d) $39,861; C. W. Blakeslee & Sons, New Haven, Conn., (a) $36,484, (b) $31,483, (c) $45,548, (d) $44.408; Alex Burgess, Croton Falls, N. Y., (a) $36,361, (c) $46,287, (d) $45,880; Daly & Merritt, Portchester, N. Y., (a) $42,905, (b) $38,757, (c) $52,530, (d) $50,495; A. D. Bridge's Sons, Inc., Hazardville, Conn., (a) $33,500, (c) $42,845, (d) $41,217, (e) $38,603; Louis Longhi & Bro., Torrington, Conn., (a) $29,775, (b) $24,150, (c) $41,624, (d) $40,403; Edward Tracy, Derby, Conn., (a) $48,173, (b) $34,280; William J. Mertz, Portchester, N. Y., (c) $44,582, (d) $43,564; Connecticut Hassam Paving Co., New Haven, Conn., (f) $47,234; Bennett N. Beard Co., Shelton, Conn., (a) $33,178, (b) $26,467, (c) $48,557, (d) $46,522; Goodman & Trumbull Co., Litchfield, Conn., (a) $31,193, (b) $23,546, (c) $43,277, (d) $42,259; A. Vito Construction Corporation, Thompson, Conn., (a) $32,812, (b) $24,536, (c) $42,824, (d) $41,807; Bristow Bros. & Knowles Corporation, Narragansett Pier, R. I., (a) $36,377, (b) $28,276, (c) $45,744, (d) $44,727; Framingham Construction Co., South Framingham, Mass., (a) $28,769, (b) $21,590; Connecticut Good Roads & Improvement Co., New Britain, Conn., (a) $31,295, (b) $24,974, (c) $40,529, (d) $39,023; Olin T. Benedict, Pittsfield, Mass., (a) $27,787, (b) $22,024; A. Brazos & Sons, Middletown, Conn., (a) $34,650, (b) $26,304; A. C. Sternberg, Jr., Construction Corporation, West Hartford, Conn., (a) $34,831, (b) $25,788, (c) $43,634, (d) $42,942; Kellogg & Gregory Co., Danbury, Conn., (a) $35,847, (b) $27,530.

East Haven Township—About 3995 lin.ft. (a) native stone macadam, (b) concrete washed sand, (c) concrete unwashed sand, or (d) bituminous macadam, on the Short Beach Road. Estimated quantities: 1370 cu.yd. earth grading, 25 cu.yd. borrowed embankment, 3220 cu.yd. rock excavation, 7115 sq.yd. 7-in. and 1500 sq.yd. 4-in. macadam, or 1187 cu.yd. concrete, or 6215 sq.yd. bituminous macadam, 465 tons trap rock screenings, 115 cu.yd. native stone in piles, 1500 sq.yd. telford base, 3107 sq.yd. liquid asphalt or asphaltic flush coat in place and covered, 10 cu.yd. second-class concrete, 10 cu.yd. new masonry, 10 cu.yd. new dry rubble masonry, 10 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 210 lin.ft. corrugated iron pipe culvert, three standard catch basins, 100 sq.yd. cobble gutters, 300 lin.ft. rubble drain, 500

lin.ft. removing and replacing stone walls, 100 lin.ft. new stone walls, 500 lin.ft. new wire fence, 50 cu.yd. sand or gravel fill, 50 cu.yd. crushed stone fill—Bristow Bros. & Knowles Corporation, Narragansett Pier, R. I., (a) $18,133, (b) $21,299, (c) $21,002, (d) $21,055; Connecticut Good Roads & Improvement Co., New Britain, Conn., (a) $12,220, (b) $12,846, (c) $12,406; C. W. Blakeslee & Sons, New Britain, Conn., (a) $13,587, (b) $16,297, (c) $15,822, (d) $15,743; Leonardo Suzio, Meriden, Conn., (a) $12,395, (b) $15,158, (c) $14,564, (d) $13,847; John de Michiel & Bro., Torrington, Conn., (a) $13,357, (b) $14,463, (c) $13,858, (d) $13,342; B. D. Pierce, Jr., Co., Bridgeport, Conn., (a) $14,007, (b) $17,556, (c) $17,259, (d) $16,208; John Arborio, 172 Congress Ave., New Haven, Conn., (a) $15,106, (b) $17,707, (c) $17,351, (d) $17,404.

Morris Township—About 6700 lin.ft. (a) native stone macadam, (b) gravel, on the East Morris Road. Estimated quantities: 1860 cu.yd. earth grading, 3210 cu.yd. borrowed embankment, 100 cu.yd. rock excavation, 150 cu.yd. wet excavation, 8420 sq.yd. 7-in. and 2000 4-in. macadam, or 10,420 sq.yd. gravel surfacing, 780 tons trap rock screenings, 190 cu.yd. native stone in piles, 2000 sq.yd. telford base, 5210 gal. liquid asphalt or asphaltic flush coat in place and covered, 22 cu.yd. first-class concrete, 10 cu.yd. second-class concrete, 1935 lb. steel beams and reinforcement, 70 cu.yd. new masonry, 10 cu.yd. new dry rubble masonry, 70 cu.yd. old masonry torn down and relaid, 50 sq.yd. pointing old masonry, 39 lin.ft. gas pipe railing, 270 lin.ft. corrugated iron pipe culvert, one standard catch basin, 100 sq.yd. cobble gutters, 1000 lin.ft. rubble drain, 275 lin.ft. removing and replacing stone walls, 100 lin.ft. new stone walls, 100 lin.ft. new wire fence, 100 cu.yd. sand or gravel fill, 100 cu.yd. crushed stone fill—Goodman & Trumbull Co., Litchfield, Conn., (a) $15,262, (b) $11,543; Louis Longhi & Bro., Torrington, Conn., (a) $15,847; Framingham Construction Co., South Framingham, Mass., (a) $14,822, (b) $10,295; Ahern Construction Co., Willimantic, Conn., (a) $18,570, (b) $15,586; A. Brazos & Sons, Middletown, Conn., (a) $17,318, (b) $12,599; John Arborio, 172 Congress Ave., New Haven, Conn., (a) $17,438, (b) $14,575; Kellogg & Gregory Co., Danbury, Conn., (a) $17,429, (b) $14,275; John de Michiel & Bro., Torrington, Conn., (a) $13,266, (b) $9531; B. D. Pierce, Jr., Co., Bridgeport, Conn., (a) $14,909, (b) $12,063. Noted Oct. 15.

Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Comr., Room 27, Capitol, until 2 p.m., Nov. 2, for road work in:

Litchfield Township, about 4186 lin.ft. 4-in. macadam on the Torrington Road. Estimated quantities, 50 cu.yd. earth grading, 7068 sq.yd. earth grading, 7068 sq.yd. 4-in. macadam, 500 sq.yd. telford base, 100 tons trap rock in piles. Specifications at Town Clerk's office, Litchfield.

Torrington Township, about 8078 lin.ft. 4-in. macadam on the Litchfield Road. Estimated quantities, 50 cu.yd. earth grading, 12,566 sq.yd. earth grading, 12,566 sq.yd. 4-in. macadam, 1500 sq.yd. telford base, 150 tons trap rock in piles. Specifications at Selectmen's office, Torrington.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough of Manhattan, Municipal Bldg., until 2 p.m., Oct. 30, for improving 160th and 161st St. from Broadway to Fort Washington Ave., West 181st St. from Northern Ave. to Riverside Drive, Haven Ave. from West 180th to West 181st St., Northern Ave. and Service St.

(Borough of the Bronx)—Bids will be received by Douglas Mathewson, Pres. of the Borough of the Bronx until 10:30 a.m., Nov. 6, for improving a section of Crotona Ave., Dawson St. from Longwood Ave. to Intervale Ave.

(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Pres. of the Borough of Queens until 11 a.m., Nov. 5, for improving Manley St. from Hunterspoint Ave. to Thomson Ave. and for 4000 cu.yd. of broken stone and screenings of trap rock.

★Camden, N. J.—(Official)—Bids will be received by the Road Committee of Camden County at the Court House until 10 a.m., Nov. 11, for constructing sections of the Sharp's Corner, Haddonfield and Moorestown and Cresson Roads and Haddonfield Main St. For particulars see advertisement under "Contracts to Be Let."

✚East Orange, N. J.—The contract for paving Morris St. has been awarded to T. M. CUSACK, Orange.

✚Hackensack, N. J.—The contract for improving Terrace Ave., from Essex St., Hackensack, to the Hasbrouck Heights borough line, has been awarded to GEORGE M. BREWSTER, Tenafly, at $29,030. Noted Aug. 6, Sept. 10.

✚Jersey City, N. J.—The Board of Boulevard Commissioners of Hudson County has awarded the contract for repairing a section of the Hudson County Blvd. to the UVALDE ASPHALT CO., at $141,455. Noted Oct. 15.

✚Jersey City, N. J.—The contract for repaving Virginia Ave. has been awarded to VAN KEUREN CONTRACTING CO., Prior St., Jersey City.

✚Harrisburg, Penn.—(Official)—A contract for constructing approximately 31,000 sq.yd. of sheet asphalt has been awarded to the CENTRAL CONSTRUCTION & SUPPLY CO., Harrisburg. Other bidders were: Cleveland Trinidad Paving Co., Cleveland, Ohio, and Stucker Bros. Construction Co., Harrisburg. Noted Oct. 22.

✚Philadelphia, Penn.—The contract for paving a section of Wayne Ave. wtih vitrified block has been awarded to the McNICHOL PAVING & CONSTRUCTION CO., at $17,633.

Pittsburgh, Penn.—(Official)—Bids will be received by the City Controller, Municipal Hall, until 10 a.m., Nov. 2, for improving Diploma St., from Sanford Rd. to Campus St., Amanda St. from Mt. Oliver to Freeland St. and Water St. from Warrington Ave. to Lillian St. Robert Swan is Dir. of Pub. Wks.

Uniontown, Penn.—(Official)—Bids will be received by the Controller of Fayette County until noon, Nov. 7, for constructing a brick road in Luzerne Township and a macadam road in Washington Township. Thomas Hudson is County Solicitor.

✚Baltimore, Md.—A contract for improving various streets in North Baltimore has been awarded to the HOME CEMENT WORKS at $14,424.

✚Salisbury, Md.—The contract for paving McElderry St. and Linwood Ave. has been awarded to the McGUIRE CONSTRUCTION CO., Norfolk, Va.

✚New Cumberland, W. Va.—A contract for constructing three miles of brick pavement has been awarded to FREI ROBINSON, at approximately $22,000.

Lake City, Fla.—Bids will be received by the Board of Public Works, until Nov. 16, for paving approximately 260 sq.yd. with vitrified brick on sand base.

Vernon, Fla.—Bids will be received by the County Commissioners, until Nov. 2, for building a 12-mile road from Douglass Ferry and Vernon Rd., and a six-mile road from the corporation limits of Chipley Township toward Orange Hill. W. B. Gainer is County Clk.

Huntsville, Ala.—At the general election, the citizens of Madison County will vote on the question of issuing $70,000 in bonds for constructing roads.

Vicksburg, Miss.—Bids will be received by J. D. Laughlin, Chancery Clk., until noon, Nov. 3, for constructing a road from Baldwin's Ferry to Holt's Ferry.

Hindman, Ky.—An election will be held Nov. 4, to vote on the question of issuing $75,000 in bonds, the proceeds of which will be used for road construction.

Cincinnati, Ohio—(Official)—Bids will be received by Philip Fosdick, Dir. of Pub. Ser. until noon Nov. 5, for improving Sanders St. from Daniels to Corry St.

(Official)—Bids will be received by the Board of County Commissioners until noon, Nov. 6, for improving a section of the North Bend Rd. Fred E. Wesselmann is Pres. and Albert Reinhardt is Clk. of the Bd.

✚Cincinnati, Ohio—(Official)—The contract for improving a section of Gilbert Ave. has been awarded to the KIRCHNER CONSTRUCTION CO., at $31,673. Noted Oct. 1.

✚Napoleon, Ohio—The contract for paving West Main St. with vitrified brick has been awarded to JOHNSON & RITZ, Napoleon, at $14,740.

Indiana—(Official)—Bids will be received as follows for road improvements in Indiana:

Montfcello, until 10 a.m., Nov. 5, by the Commissioners of White County, for constructing a road in Union Township. A. G. Fisher is Audr.

Winamac, until noon, Nov. 5, by the Commissioners of Pulaski County, for constructing a road in Salem Township. W. E. Munchenburg is Audr.

Crown Point, until 1 p.m., Nov. 5, by the Commissioners of Lake County, for constructing roads in North and Calumet Townships. Edward Simon is Audr.

Brownstown, until 1 p.m., Nov. 12, by the Commissioners of Jackson and Bartholomew Counties, for constructing a county line road. Albert Leudtke is Audr. of Jackson County.

Fort Wayne, until 10 a.m., Nov. 12, by the Commissioners of Allen County, for constructing a stone road in Lafayette Township. Calvin H. Brown is Audr.

Richmond, until 11 a.m., Nov. 21, by the Commissioners of Wayne County, for constructing a highway in Wayne Township. L. S. Bowman is Audr.

Indianapolis, until 10 a.m., Nov. 23, by the Commissioners of Marion County, for constructing a gravel road in Franklin Township. W. T. Patten is Audr.

✚Fort Wayne, Ind.—The contract for constructing stone road No. 1 has been awarded to DEAN ELLISON, at $12,374.

✚Greensburg, Ind.—A contract for constructing a crushed stone road in Sand Creek Township has been awarded to MOORE & CRISE, Letts, at $8500. Noted Sept. 24.

✚Mt. Vernon, Ind.—A contract for constructing 9475 ft. of gravel road has been awarded to the MT. VERNON CONSTRUCTION CO., at $5643. Noted Oct. 1.

✚Muncie, Ind.—The contract for constructing a crushed-stone road in Union Township has been awarded to AMOS N. FOORMAN, at $5580. Noted Oct. 1.

✚Sullivan, Ill.—A contract for paving 10,000 sq.yd. with brick and constructing 8000 lin.ft. of combined curb and gutter has been awarded to L. R. HARSHMANN, Sullivan, at $21,165. Noted Oct. 8.

St. Paul, Minn.—Bids will be received by August Hohenstein, City Pur. Agt. until 10 a.m., Nov. 2, for improving Wentworth St. from Doane to St. Anthony Ave., Clarence St. from Burnes Ave. to Hudson Rd. and Berry Ave. from Bayard to Myrtle Ave.

Hutchinson, Kan.—Bids will be received by the City Commission until Nov. 6, for repaving Sherman St. W. with asphalt.

✚Great Falls, Mont.—S. BIRCH & SONS CONSTRUCTION CO., Great Falls, at $7514, received the contract for paving the First Ave. north subway with gravel bitulithic.

✚Kansas City, Mo.—The contract for paving St. Louis Ave. from State Line St. to Genesee has been awarded to F. P. McCORMACK at $5365.

Dallas, Tex.—According to press reports, bids will be received by the Board of City Commissioners, until Nov. 2, for paving portions of Commerce, Bowen, Lattimer, Pearl and Bishop St.

✚El Paso, Tex.—The contract for paving North Florence and Porfirio Diaz St. has been awarded to the SOUTHWESTERN PAVING CO.

San Antonio, Tex.—All bids received by the City Council for paving Alamo, Plaza, St. Mary's and Travis St. have been rejected.

✚Temple, Tex.—A contract for graveling about 20 miles of streets, Road District No. 5, has been awarded to the HOWARD CONSTRUCTION CO., at approximately $140,000.

Idabel, Okla.—At an election to be held soon, the citizens of McCurtain County will vote on the question of issuing $122,000 in bonds for constructing roads and bridges.

Port Orchard, Wash.—Bids will soon be received by the Commissioners of Kitsap County for constructing a road from Brownsville to Manette. The road is to be constructed under the plans of the local improvement district.

✚Prosser, Wash.—The contract for constructing the Benton City Road has been awarded W. A. MORAIN, Kennewick, at $11,820.

+Portland, Ore.—Contracts have been awarded for paving Webster St. from Denver to Delaware Ave. and Fremont St. from East 33d St. to County Rd. No. 316 to OSCAR HUBER, at $24,529; East Grand St. from Grand Ave. to East 11th St. to the OREGON HASSAM PAVING CO., at $12,016.

+St. Helens, Ore.—The contract for constructing the Pittsburgh-St. Helens Road has been awarded to the MILLS-ERMSTROM CO., Veronia, at $21,816.

Berkeley, Calif.—The San Francisco-Oakland Terminal Rys. Co. is preparing to pave a section of Grove St., at an estimated cost of $37,000. W. R. Alberger, Oakland, Calif., is Gen. Mgr.

Fresno, Calif.—Bids will be received by the Board of Supervisors until Nov. 6, for constructing the Dunlap cutoff Road, a 2.9 mile roadway which will extend from the old Millwood Rd. one mile east of Dunlap to the Sand Creek Rd. near the Woodey place. The estimated cost is about $14,000.

Los Angeles, Calif.—Bids will be received by the Board of Supervisors until 2 p.m., Nov. 2, for grading and constructing oil macadam pavement and reinforced concrete culverts in Road District No. 71. The work lies on Lark Ellen and Cypress Aves. about one mile west of Covina, and consists of 3260 cu.yd. excavation, 10,670 ft. shaping roadbed, 6985 ton rock, 53.2 cu.yd. concrete, 3421 lb. steel. Estimated cost $9333.

+Manhattan Beach, Calif.—A contract for improving a number of streets has been awarded to the BARBER ASPHALT CO., at approximately $200,000.

Petaluma, Calif.—An expenditure of $20,000 is contemplated by the city for paving Washington St.

Porterville, Calif.—Bids will soon be received by the City Council for paving Main, Cleveland and Morton St.

+Richmond, Calif.—The City Council has awarded a contract for street paving to L. L. PAGE, Richmond, at $11,346.

+Sacramento, Calif.—The City Commission has awarded the contract for paving Front St. from N to O St. to ADOLPH TEICHERT, at $6000.

+Sacramento, Calif.—The State Highway Commission has awarded contracts for highway work as follows: Santa Barbara County, between Stony Creek and El Capital, 10.2 miles, to C. H. HUDSON, Los Angeles, Calif., at $79,191; Kern County, from southerly boundary to Rose Station, to A. C. McCLEAN CONSTRUCTION CO., San Francisco, Calif., at $68,004; Humboldt County, between Loleta and Beatrice, 4.3 miles, to ELSMORE & JACOBS, Eureka, Calif., at $18,777; Humboldt County, from Shively to Jordan Creek, 3.7 miles, to WILLIAM CROWLEY and T. E. CLONEY, at $28,624; Imperial County, between Meyers Creek and Coyote Wells, about 6 miles, to J. W. CALBOCK, San Diego, Calif., at $68,145; Alameda County, from easterly boundary to Altamont, about 5.9, to PALMER & McBRIDE, San Francisco, Calif., at $38,032. The section in Santa Barbara County over Serana Gap will be built by day labor under the direction of the State Engineer. Noted Sept. 24 and Oct. 22.

(Official)—Bids will be received by the State Highway Commission, 515 Forum Bldg., until 2 p.m., Nov. 9, for the following road construction: Colusa County, from Williams to Colusa, about 8.4 miles in length, to be built of portland cement concrete. Glenn County, from the southerly boundary to Willows, about 8.5 miles in length, to be built of portland cement concrete. Solano County, from a point 2½ miles south of Cordelia to Fairfield, about 8.1 miles in length, to be built of portland cement concrete. Imperial County, from Coyote Wells to Dixieland, about 11.7 miles in length, to be built of portland cement concrete.

+San Mateo, Calif.—The City Trustees have awarded a contract for paving work in the downtown district to A. G. RAISCH, San Francisco, at $12,800.

Santa Ana, Calif.—Bids will be received by the Board of Supervisors until 10 a.m., Nov. 4 for grading and paving certain streets in Road Improvement District No. 1 and for surfacing Sievers Cañon Rd.

The Commissioners of Orange County contemplate constructing a boulevard from Newport to Huntington Beach.

+Sawtelle, Calif.—GEORGE R. CURTISS, 552 North St. Louis St., Los Angeles, has been awarded the contract at $19,835 for improving Tenth and Ohio St.

+Suisun, Calif.—The contract for paving Union Ave. with macadam has been awarded to W. B. CONNELLY, at $5941.

INDUSTRIAL WORKS

+Atlantic, Mass.—The contract for the construction of the factory buildings for the Atlantic Rubber Co., has been awarded to MACKENZIE & TEMPLE, 50 Central St., Quincy, Mass.

+Boston, Mass.—The contract for the construction of the six-story brick and stone warehouse on Sleeper St., for the Boston Wharf Co., has been awarded to J. M. & C. J. BUCKLEY, 184 Federal St. M. D. Safford, 259 Summer St., is the Arch.

+Brookline, Mass.—The contract for the garage to be erected at 11 Pearl St., for Harry E. Chase, has been awarded to WILSON & TOMLINSON.

+Cambridge, Mass.—The second unit of the plant of Lever Bros. has been awarded to WALSH BROS., Cambridge, Mass. Thomas M. James, Cambridge, is the Arch.

+Worcester, Mass.—The contract for the construction of two buildings at the plant of the Spencer Wire Co. has been awarded to E. J. CROSS CO., Foster St., Worcester, Mass.

New Haven, Conn.—The Standard Wash Tray Works, will erect an addition, 75x150 ft. J. Weinstein, 6 Church Sq., New Haven, is the Arch.

+Jamestown, N. Y.—The general contract for the construction of the three-story factory for the Seabury Mfg. Co. has been awarded to ALBIN JOHNSON.

+New York, N. Y.—(Borough of Brooklyn)—The general contract for the one-story brick foundry at Rapelyea and Van Brunt St., for the Atlantic Basin Iron Works, has been awarded to A. E. KLEINERT, 316 Flatbush Ave. The estimated cost is $15,000.

Bids are being received by Frederick Putnam Platt, Arch., 1123 Broadway New York, for the two-story brick warehouse at 99 Lexington Ave., for Alfred E. McAdam, 97 Lexington Ave. The estimated cost is $25,000.

+New York, N. Y.—(Borough of Richmond)—(Official)—The foundation contract for the warehouses at Tompkinsville, for the American Dock Co., has been awarded to the McARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York. Noted Oct. 22.

Niagara Falls, N. Y.—Plans are being prepared by D. A. Crone, Arch., Oliver Bldg., for the construction of a two-story and basement, 82x250 ft. factory for the Santo Rubber Co. The estimated cost is $100,000. Noted June 25.

Springville, N. Y.—The plant of the James H. Gray Milling Co., recently destroyed by fire will be rebuilt.

+Utica, N. Y.—The general contract for the construction of the paper factory for the E. P. Bailey Co. has been awarded to HARRY LANCASTER; steel work, UTICA STEAM ENGINE & BOILER WORKS. The estimated cost is $26,000.

+Jersey City, N. J.—The foundation contract for the one-story, 250x350-ft. warehouse, on Westside Ave., for Joseph T. Ryerson & Son, 30 Church St., New York, has been awarded to the DAVID HENRY BUILDING CO., 207 Market St. The estimated cost is $20,000.

Newark, N. J.—The Newark Plaster Co. contemplates erecting manufacturing buildings at Newark Plank Rd. and Passaic Ave. The estimated cost is $75,000.

Pittston, Penn.—Plans are being prepared by C. F. Hettinger & Co., Archs., Roxbury, Mass., for an addition to the brewery at Pittston. The estimated cost is $50,000.

Vista, Penn.—The Williams Tire Co. has purchased ten acres of land upon which it will erect a plant. A. D. Williams, Glassport, Penn., is the Pres.

+Suffolk, Va.—The contract for rebuilding the plant of the John King Peanut Co. has been awarded to JESSE JOHNSON, Norfolk, Va., at $15,927.

+Greensboro, N. C.—The contract for the erection of 10 warehouses for the Revolution Cotton Mills has been awarded to G. T. STONE.

Cincinnati, Ohio—Early & Daniels, grain dealers, 35 Carew Bldg., have plans completed for the warehouse to be erected at Sixth and Harriet St. The estimated cost is $75,000.

East St. Louis, Ill.—The Champion Feed Milling Co., Lyons, Iowa, contemplates constructing a feed mill at 21st St. and McCasland Ave., East St. Louis. Estimated cost, $50,000.

+Green Bay, Wis.—The contract for the construction of the three-story 40x170 ft. factory on East River at Van Buren St. has been awarded to the FABRY CONSTRUCTION CO.

+Madison, Wis.—Contracts for the construction of a two-story and basement, 25x100-ft. bottling plant for the Heibel Bottling Co. have been awarded to L. B. GILBERT, masonry; FREDERICKSON BROS., carpentry. Estimated cost, $20,000. Noted Aug. 20.

Milwaukee, Wis.—F. W. Andree, Arch., Cawker Bldg., is preparing plans for the construction of a three-story and basement, 20x120-ft. warehouse, at East Water and Buffalo St.

Milwaukee, Wis.—Lockwood, Greene & Co., Archs., 38 S. Dearborn St., Chicago, Ill., is preparing plans for the construction of a six-story and basement, 115x135-ft. warehouse, at Fourth and Fowler St., for the B. J. Johnson Soap Co. Estimated cost, $100,000.

Sauk City, Wis.—Plans are being prepared by Joseph Dresen, Arch., for the construction of a gasoline engine factory for the Shaw Motor Co., Chicago, Ill. Estimated cost, $25,000.

Sheboygan, Wis.—Plans have been prepared for the plant to be erected for the Sheboygan Cigar Box Lumber & Mfg. Co. C. F. Ringer & Son, Hathaway Bldg., Milwaukee, Wis., are the Archs. Noted Aug. 27.

+Waukesha, Wis.—The contract for the addition to the plant of the Spring City Foundry Co., has been awarded to GEORGE WARD, 112 West Ave., Waukesha, Wis.

San Antonio, Tex.—Leo M. J. Deilman, Arch., has prepared plans for the construction of a warehouse for the Mission Ice & Fuel Co.

Peck, Idaho—P. S. Lantzy, Spokane, Wash., plans the construction of a flour mill and an electric light plant. Estimated cost, $20,000.

+Seattle, Wash.—The contract for the construction of the first unit of the cold storage warehouse, at the East Waterway Turning Basin, for the Seattle Port Commission, has been awarded to the BUTLER CONSTRUCTION CO. Estimated cost, $129,300. Noted Oct. 15.

Ashland, Ore.—Plans are being prepared for the construction of an evaporation plant for M. C. Bressler, Ashland.

+Portland, Ore.—The contract for the construction of a factory for the Portland Oxygen & Hydrogen Co., at Seventeenth Ave., between Center and Borse St., has been awarded to W. C. MOORE.

Claremont, Calif.—Plans are being prepared for the construction of a pre-cooling plant at Oberlin and Cornell St. for the Union Ice Co. Estimated cost, $100,000.

Los Angeles, Calif.—The Givan Paper Mills Co., Union Oil Bldg., recently incorporated, contemplates constructing a plant to cost $175,000. Pockney French, B. H. Smith and Frank G. Hickox are interested.

Oakland, Calif.—Bids will be received about Nov. 15, by Cheney & Hobart, Archs., San Francisco, Calif., for construction of a plant to be erected at 12th and Union St., for the Shredded Wheat Biscuit Co., Niagara Falls, N. Y. The estimated cost is $400,000. Noted Sept. 10.

Visalia, Calif.—The Mineral King Fruit Co. contemplates constructing a reinforced-concrete warehouse, 100x200 ft., at Visalia.

✚Bedford, Que.—The contract for the construction of the factory for the Bedford Mfg. Co. has been awarded to GRAY & SMITH, Montreal, Que.

Fort Erie, Ont.—The Crystal Cut Glass Co., Ltd., will erect a factory at Bertie and Rose St., William L. Hunt, is the Pres.

Kingston, Ont.—The Stonemeal Fertilizer Co., Paterson, N. J., will erect a plant at Kingston. The estimated cost is $60,000.

New Westminster, B. C.—Gardner & Mercer, Archs., are preparing plans for the construction of the elevator and warehouse for the Brackman-Ker Milling Co. Estimated cost, $50,000. Noted Sept. 24.

Vancouver, B. C.—Salmon River Lumber & Shingle Co., Ltd., 198 Hastings St., contemplates the construction of a lumber mill, to cost approximately $40,000.

FEDERAL GOVERNMENT WORK

★Dredging—Portland, Maine—Bids will be received by Lieut. Col. W. E. Craighill, 537 Congress St., Portland, until noon, Nov. 28, for dredging in Portland Harbor.

Repairing Vessel—Portland, Maine—The date for receiving bids for docking and repairing the Portland light vessel has been extended from Oct. 22 to Nov. 2. C. E. Sherman is Inspector. Noted Oct. 1.

Shipbuilding Ways, Etc.—Boston, Mass.—The following are the bids received for shipbuilding ways and appurtenances at the Navy Yard, Boston: H. P. Converse & Co., Boston, $77,321; alternate bids, $68,143, $75,216; William P. Miller Co., 171 Alford St., Boston, $95,839; W. H. Ellis & Son Co., 479 Meridian St., East Boston, $117,560; George T. Rendle Co., 270 Condor St., East Boston, $55,666; Crandall Engineering Co., 102 Borden St., East Boston, $85,292; C. M. Leach, Boston, $143,000. Noted Oct. 8.

✚Mezzanine Floor,—Worcester, Mass.—The contract for constructing a mezzanine floor in the post office has been awarded to James Miles & Son Co., Worcester, at $8287. Noted Oct. 22.

Dredging, Etc.—Newport, R. I.—Bids will be received by Col. John Millis, U. S. Engineer's office, Newport until noon, Nov. 25, for dredging and rock removal in Newport Harbor.

Repairs to Mailing Platform—Buffalo, N. Y.—The only bid received for making repairs to the mailing platform, etc., at the U. S. post office, Buffalo, was from the Gentner-Savage Co., Buffalo, N. Y., at $7980.

Mechanical Equipment—Syracuse, N. Y.—Bids will be received, until 3 p.m., Nov. 16, by Oscar T. Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for installing a conduit and wiring system, lighting fixtures, and making heating repairs and extensions, at the U. S. post office and court house.

Bulkhead, Storehouse and Oilhouse—Atlantic City, N. J.—Bids will be received by Maj. E. N. Johnston, Corps Engrs., U. S. A., Wilmington, Del., until Nov. 7, for building bulkhead, storehouse and oilhouse at Atlantic City.

★Air Compressors—Pittsburgh, Penn.—Bids will be received until noon, Nov. 21, by Lieut.-Col. Francis R. Shunk, Corps Engrs., U. S. A., for furnishing and installing two air compressors and one water turbine at Lock No. 2, Monongahela River.

✚Repairs to Post Office—Baltimore, Md.—The contract for making repairs to mechanical equipment and certain construction changes in the U. S. post office at Baltimore has been awarded to the NEWPORT CONTRACTING & ENGINEERING CO., Newport News, Va., at $6589.

Buildings—Washington, D. C.—Bids will be received at the office of the Superintendent, Coast and Geodetic Survey, 205 New Jersey Ave. S. E., Washington, D. C., until 2 p.m., Oct. 31, for the construction of two buildings for the Coast and Geodetic Survey.

✚Memorial—Washington, D. C.—The contract for the construction of the memorial to the women of the Civil War has been awarded to the BOYLE-ROBERTSON CONSTRUCTION CO., Washington, D. C., at $351,359, using Danby marble. Bids were opened Aug. 20. Noted July 23.

★Concrete Footbridge—Fortress Monroe, Va.—Bids will be received by the Quartermaster, until noon, Nov. 14, for the construction of a concrete footbridge across the moat at Fortress Monroe. The work necessitates changing the location of the electrical conduit.

Trestles—Wheeling, W. Va.—The lowest bid submitted for furnishing and delivering Poiree trestles, recess and engine-pit covers for dam No. 15, Ohio River, was from the Toledo Bridge & Crane Co., Toledo, at $5752. J. B. Wills is Capt., Corps of Engrs. Noted Sept. 24.

✚Post Office—Gastonia, N. C.—The contract for the construction of the post office at Gastonia has been awarded to the W. J. BRENT CONSTRUCTION CO., Norfolk, Va., at $58,967.

Dock Piers—Jacksonville, Fla.—Press reports state that the government will construct dock piers at Jacksonville. Maj. W. B. Ladue, Corps Engrs., is in charge.

✚Roof Repairs—New Orleans, La.—The contract for making repairs to the roofs of the buildings at the naval station, New Orleans, has been awarded to HENRY MONK, Pensacola, Fla., at $6375.

Levee Work—Memphis, Tenn.—Bids will be received, until 11 a.m., Nov. 2, by the Mississippi River Commission, Custom House, Memphis, for constructing about 3,341,000 cu.yd. of levee work in the Upper and Lower St. Francis and White River levee districts. E. M. Markham is Major.

✚Post Office—Georgetown, Ky.—The contract for the construction of the post office at Georgetown has been awarded to GEORGE BECKING, Chattanooga, Tenn., at $65,128. Noted Aug. 20.

Steel Hull—Cincinnati, Ohio—Bids will be received, until 10 a.m., Nov. 19, by Lieut.-Col. H. Jervey, Custom House, Cincinnati, for constructing a steel hull for dipper dredge "Carrollton," on Kentucky River.

Steel Deck Barges—Cincinnati, Ohio—The following are the bids received by Lieut.-Col. H. Jervey, Custom House, for constructing two steel deck barges: Jones & Laughlin Steel Co., Pittsburgh, Penn., (a) delivery at Carrollton, Ky., $10,344; (b) delivery at shipyard, $9774; Pittsburgh-Des Moines Steel Co., Pittsburgh, Penn., (a) $11,400, (b) $10,600; Hartmann-Greilling Co., Green Bay, Wis., (a) $13,750, (b) $11,680; Dubuque Boat & Boiler Works, Dubuque, Iowa, (a) $13,120; Charles Hegewald Co., New Albany, Ind., (a) $11,996, (b) $11,896; Edward J. Howard, Jeffersonville, Ind., (a) $11,546; (b) $13,364; J. K. Petty & Co., Inc., Philadelphia, Penn., (a) $19,750; American Bridge Co., Cincinnati, Ohio, (a) $9700, (b) $9450. Noted Oct. 1.

✚Breakwater—Marquette, Mich. — The contract for constructing a rubble mound breakwater at Marquette has been awarded to T. L. DUROCHER, Sault Ste. Marie, Mich., at $276,600. Other bids were: Great Lakes Dredge & Dock Co., Duluth, Minn., at $368,900, Zenith Dredge Co., at $298,800, and Greibing Bros. Co., Green Bay, Wis., at $313,250. E. D. Peek is Maj., Corps of Engrs. Noted Oct. 8.

Steel and Lathing—Chicago, Ill.—Bids will be received by Capt. Roy B. Harper, Acting Depot Quartermaster, 115 East Ontario St., Chicago, until Nov. 9, for furnishing and delivering f.o.b. place of manufacture, Kahn bars, floor tiles, deformed square bars and about 16,800 ft. of expanded metal lath.

Post Office—Sparta, Wis.—Bids will be received by Oscar T. Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 30, for constructing the post office at Sparta. The building will be one story and basement, of brick and stone.

Gate Hoisting Equipment—Moran, Wyo.—Bids will be received by the U. S. Reclamation Service, Boise, Idaho, until 2 p.m., Nov. 22, for furnishing certain gate hoisting equipment for sluice gates in connection with the Jackson enlargement project, Moran. For particulars write U. S. Reclamation Service, Boise, Idaho, or Washington, D. C. F. H. Newell is Dir.

★Canals and Dikes—Malta, Mont.—The following are the bids received by the U. S. Reclamation Service, Malta, for the earthwork and structures in connection with the Nelson Reservoir outlet canals, dikes and controlling works: Security Bridge Co., Minneapolis, Minn., (a) Schedule 1, $10,300, (b) Schedule 2, $18,160; Dooling Bros., (a) $10,421; Charles Wilhite & Co., Malta, (a) $13,600; James O'Connor, 231 Park Ave., Council Bluffs, Iowa (a) $13,630; W. J. Hoy Co., St. Paul, Minn., (a) $14,702, (b) $20,680; Heuser & Sim, Malta, Mont., (b) $27,620. Noted Sept. 10.

Post Office—Uvalde, Tex.—Bids received, Oct. 6, by the Supervising Arch., for constructing the post office at Uvalde have been rejected. Noted Aug. 20 and Oct. 22.

Drainage—Nampa, Idaho—According to press reports, the U. S. Reclamation Service has appropriated $500,000 for the purpose of draining lands in the Nampa-Meriden Irrigation District.

Hull—Portland, Ore.—Bids will be received by Lieut.-Col. C. H. McKinstrey, Custom House, Portland, until Nov. 5, for the construction of a wooden hull to be used as a combination dredge and snagboat.

✚Coal Platform and Flume—San Diego, Calif.—The contract for making an extension to the coal platform and flume at the naval coal depot, San Diego, has been awarded to FREDERICK STEFFGEN, San Diego, at $8215. Noted Sept. 17 and Oct. 22.

Miscellaneous—San Francisco, Calif.—Bids will be received by Lieut.-Col. W. H. Hart, Depot Quartermaster, San Francisco, until 10 a.m., Nov. 5, for furnishing hardware, lighting fixtures, etc.

Locomotive—Pearl Harbor, H. T.—Bids will be received by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 14, for one narrow-gage, saddle-tank switching locomotive, delivered at the naval station, Pearl Harbor, Hawaii.

MISCELLANEOUS

✚Wharf and Fender Pier—Boston, Mass.—The Public Works Department has awarded the contract for the construction of a draw fender pier and wharf at South Boston, to W. H. ELLIS, East Boston. Noted Oct. 1.

Shore Improvement, Breakwater, Etc.—Boston, Mass.—Plans for the improvement of the Dorchester Bay Strandway were filed with Mayor Curley, Oct. 6, by Commissioners Rourke, Dillon and Mahoney. The plans call for the reclamation of 25 acres of land, creation of a white sand beach, 150 ft. wide, diverting the sewerage discharge and the construction of a breakwater. Estimated cost about $570,000.

Monument—Worcester, Mass.—Competitive sketches will be received by the Spanish-American Monument Association, for a monument to be erected in Armory Court. The estimated cost is $7000. A. A. Brigham, 340 Main St., is the Chmn.

✚Barge Canal Work—Albany, N. Y.—(Official)—The following bids were received, Oct. 20, by Duncan W. Peck, State Supt. Pub. Wks., for Barge Canal Work: (a) Contract K—for constructing the superstructures of three highway bridges. (b) Contract No. 115—construction of the superstructure of movable dam No. 4 over the Mohawk River at Scotia. (c) Contract M—power plants, electrical equipment, and machinery for operating locks 1, 2, 3 and 4, Cayuga and Seneca Canal. PHOENIX BRIDGE CO., 49 Williams St., New York, (a) $63,214 (awarded contract), (b) $113,302; Pennsylvania Bridge Co., Beaver Falls, Penn., (a) $63,711 (b) $105,883; Fort Pitt Bridge Co., Pittsburgh, Penn., (a) $65,787 (b) $118,072; Larkin & Sangster, Seneca Falls, N. Y., (a) $66,639; Toledo Bridge & Crane Co., Toledo, Ohio, (a) $67,155; Lupfer & Rennick, Buffalo, N. Y., (a) $69,218, (b) $112,895, (c) $188,031; Chesley, Earl & Heinbach, Inc., Buffalo, N. Y., (a) $70,500; Whitehead & Kales Iron Works, Detroit, Mich., (a) $72,843, (b) $123,694; Lord Electric Co. & MacArthur Bros. Co., Albany, N. Y., (c) $234,246; Wright Mfg. Co., Lisbon, Ohio, (c) informal.

The following bids were also received for Contract No. 23-B—completing the approaches to the South Ave. Bridge on site of contract No. 23, Brighton, Monroe County: MICHAEL E. SWEENEY, Rochester, N. Y., $5262 (awarded contract); S. R. Rosoff, Herkimer, N. Y., $5495; E. R. Weed & Son, Holley, N. Y., $5997; M. J. Sullivan, Deerfield, N. Y., $6046; L. G. Snyder, Rochester, N. Y., $6366; Genesee Contracting Co., Rochester, N. Y., $6280. Noted Oct. 1.

Barge Canal Work—Albany, N. Y.—(Official)—Bids will be received by Duncan W. Peck, State Supt. Pub. Wks., until noon, Nov. 20, for the following contracts: (Contract J), for constructing the substructure, superstructure and approaches of a highway bridge over the Cayuga and Seneca Canal at Fourth St., Watkins, and for constructing a section of dock-wall between the west abutment and the end of the terminal dockwall. Engineer's estimate, $52,939.75; (Terminal Contract No. 29), for constructing a harbor, dockwall and two breakwaters in Oneida Lake at Constantia, N. Y. Engineer's estimate, $43,573.50.

Dredging—Albany, N. Y.—An ordinance will be introduced at a meeting of the Common Council to be held soon authorizing a bond issue of $35,000 to provide funds for dredging the Albany basin.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until Nov. 4 by Robert Adamson, Fire Comr., Municipal Bldg., Borough of Manhattan, for furnishing and applying eight gasoline propelled tractors, five for steam fire engines and three for hook and ladder trucks. Bids will also be received for furnishing and applying ten gasoline propelled tractors, seven for steam fire engines, and three for hook and ladder trucks.

✚Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing the Fire Department with two gasoline propelled tractors has been awarded to the C. J. CROSS FRONT DRIVE TRACTOR CO., at $6780. The contract for furnishing ten gasoline propelled tractors, seven for steam fire engines, and three for hook and ladder trucks, has been awarded to the FRONT DRIVE MOTOR CO., Hoboken, N. J., at $36,000. Noted Oct. 8.

Creek Improvement—Syracuse, N. Y.—The following bids were received by the Syracuse Intercepting Sewer Board for the improvement of Onondaga Creek: Merrill-Ruckgaber Co., New York, $153,105; John Young, Syracuse, $167,770; Walsh Construction Co., Davenport, Iowa, $168,755; E. W. Foley Construction Co., New York, $180,103; F. J. Cogan Co., New York, $181,460; State Highway Construction Co., $194,496; Larkin & Sangster, Seneca Falls, $202,503. Noted Sept. 24.

✚Fire Station—Union, N. J.—The contract for the erection of a two-story fire station on Third St., has been awarded to ROBERT G. & WILLIAM E. LIMOUZE at $14,989. Noted Aug. 13.

Elimination of Grade Crossing—Philadelphia, Penn.—Mayor Blankenburg has signed an ordinance authorizing the elevation of the tracks of the Pennsylvania R.R. on Lehigh Ave., between Richmond St. and Trenton Ave. The estimated cost is $5,000,000. The expense will be shared equally by the city and the Pennsylvania R.R.

Subway—Cumberland, Md.—James P. Gaffney, City Engr., is preparing plans for a subway to be constructed at Green St. crossing of the Baltimore & Ohio R.R.

✚Dock—Jones (Hollywood post office), Md.—The Maryland, Delaware & Virginia Ry. Co. has awarded the contract for the construction of a 300-ft. dock to GEORGE D. TURNER, Prince Frederick, Md.

✚Filling—Bay St. Louis, Miss.—The Sea Wall Commission has awarded the contract for filling behind the proposed seawall to JOHN ANDERSON, Abbeville, La., at 14c. per cu.yd.

✚Drainage—Clarksdale, Miss.—The Coahoma Drainage District Commissioners have awarded the contract to the MEMPHIS CANAL CONSTRUCTION CO., for the construction of a drainage system for the reclamation of 18,000 acres in northern Coahoma County. The estimated cost is $65,000. E. L. Fontaine is County Engr.

Memorial—Vicksburg, Miss.—The Michigan-Vicksburg National Park Commission will select a site in the park for a memorial from the State of Michigan, estimated to cost $20,000. W. T. Rigsby is Chmn.

✚Levee Work—New Orleans, La.—Contracts for levee work aggregating 271,000 cu.yd., have been awarded by the State Board of Engineers, as follows: Wilson Levee—65,000 cu.yd., G. C. HOWELL, 12.4c. per cu.yd.; Saucier Levee—50,000 cu.yd., W. M. RUSHING, 11.4c. per cu.yd.; Sarto Levee—100,000 cu.yd., RUSHING & HOWELL, 11.7c. per cu.yd.; Rapp Levee—40,000 cu.yd., LOWER COAST CONSTRUCTION CO., 15.4c. per cu.yd.; Norbert Buras Levee—16,000 cu.yd., SMITH BROS., 23.5c. per cu.yd.

Riveted Steel Pipe—New Orleans, La.—(Official)—Bids will be received until Dec. 1 by F. S. Shields, Secy., Sewerage and Water Bd., for furnishing 5-ft. and 12-ft. riveted steel pipe; approximate weight, 150,000 lb. Specifications are on file at the offices of the Board, Room 508, City Hall Annex, New Orleans.

✚Levee—New Orleans, La.—The State Board of Engineers has awarded the contract for the construction of the Cærnavon levee to W. E. GEREN, at 42c. per cu.yd. The work calls for 30,000 cu.yd. of earth work.

Stadium—Lexington, Ky.—Walter E. Rowe, Dean of the College of Engineering, Kentucky University, is preparing plans for a reinforced-concrete stadium having a seating capacity of 5000.

Motor Trucks—Cleveland, Ohio—Bids will be received until Nov. 6, by the Commissioner of Purchases and Supplies, Room 513, City Hall, for furnishing motor trucks for use by the municipal electric-light department. Specifications may be obtained of F. W. Ballard, Comr., Heat and Light Dept.

Fire Escapes—Cleveland, Ohio—(Official)—Bids will be received at the office of the Clerk of the Board of Education, East Sixth St., until noon Nov. 23, for furnishing the necessary materials and labor for the construction of fire escapes for South School. Frank G. Hogen is Dir. of Schools.

Dredging—Millersburg, Ohio—The County Commissioners have plans under consideration for dredging and straightening the west branch of Sugar Creek.

Coal Docks, Hoisting and Dumping Equipment—Toledo, Ohio—The Cincinnati, Hamilton & Dayton R.R. Co. is having plans prepared for coal docks, additional yard facilities, coal hoisting and dumping equipment. The estimated cost is $500,000.

Memorial Chapel—Willoughby, Ohio—(Official)—The Andrews Institute for Girls, Sidney S. Wilson, Gen. Mgr., will receive sketches, plans and estimates until Nov. 15, of a memorial chapel to be erected in the cemetery of the Village of Willoughby. Cost not to exceed $30,000.

Mausoleum—Wooster, Ohio—Plans have been completed by Knox & Elliott, Archs., Rockefeller Bldg., Cleveland, Ohio, for a one-story, 30x113-ft. granite mausoleum, to be erected in Oak Hill Cemetery.

Fire and Police Signal System—Youngstown, Ohio—The city contemplates the installation of a fire and police signal system, estimated to cost about $18,000.

Stadium—Evansville, Ind.—The City School Board plans to erect a steel stadium on the Garvin Park Athletic Field.

Creek Improvement—Fort Wayne, Ind.—The city contemplates straightening Spy Run Creek south of the Lawton Park bridge.

Subway—Danville, Ill.—The following were the three lowest bids received by the Board of Local Improvements for the construction of the Fairchild St. subway: Carson-Payson Co., Danville, $94 008; E. R. Harding Co., Racine, Wis., $113,720; Pronger & Fletcher, Blue Island, Ill., $124,850.

Drainage—Lincoln, Ill.—(Official)—Bids will be received, until Nov. 3, by William Bates, County Surv., for furnishing 550 ft. 24-in. standard sewer pipe, 3450 ft. 20-in., 3200 ft. 12-in. and 790 ft. 10-in. shale field tile for Union Drainage District No. 1.

Fire Station and Motor Apparatus—Milwaukee, Wis.—Plans are being prepared by the Department of Public Buildings, J. C. Pinney, Supt., for a two-story, 30x85-ft. fire station, to be erected at 39th and Vliet St. The estimated cost is $30,000. Motor fire apparatus will be purchased.

Breakwater—Racine, Wis.—P. H. Donnolly, City Engr., will receive bids for the construction of a breakwater in Lake Michigan, between 10th and 12th St.

Drainage—Sheboygan, Wis.—J. Donahue, Consult. Engr., Sheboygan, is preparing specifications for the construction of 13,000 ft. of drainage canals on the Pinehurst farm of Peter Reiss, Sheboygan Falls.

✚Drain—Fort Dodge, Iowa—The Webster County Commissioners have awarded the contract to JENSEN, KJAR & JACOBSON, Humboldt, Iowa, at $24,741 for furnishing the labor and material for the construction of Drain No. 195.

✚Drainage—Hampton, Iowa—Drainage District No. 34 has awarded contracts for drainage work to LINNAN & CLANCY, Fonda, Iowa, at $22,474, for labor; WHAT CHEER CLAY PRODUCT CO., What Cheer, Iowa, at $32,187, for tile.

Drainage District No. 32 has awarded the following contracts for drainage work: (Tile), HAWKEYE CONSTRUCTION CO., Webster City, at $24,127, including 66,100 ft. 6-in. to 36-in. hard burned clay shale tile; (Labor), JAMES SLATTEY, Algona, at $10,814.

Drainage—St. Joseph Mo.—W. B. Hazen, Engr., has been retained by the Nishrabotna Drainage District to make surveys for improvements in the drainage system.

Subways—St. Louis, Mo.—According to reports the Missouri Pacific Ry. System, J. R. Stephens, Ch. Engr., contemplates the construction of subways for the elimination of grade crossings at Eager Rd., Shaw Ave., McRee Ave., King's Highway and Wilson Ave., Oak Hill and Carondelet branch. The estimated cost is $278,467.

Amusement Pier—Galveston, Tex.—Edward Avory and C. H. Gordon contemplate building an amusement pier at the foot of 14th St. The estimated cost is $15,000.

Carts, Cans and Sweepers—San Antonio, Tex.—(Official)—Bids will be received, until 4 p.m., Nov. 9, by Ray M. Mackey, City Purch. Agt., for carts carrying demountable cans, cans and modern sweepers.

Drainage District—Victoria, Tex.—Preliminary steps have been taken by land owners in Victoria County for the formation of Drainage District No. 3. The proposed district will comprise 70,000 acres of land.

Fire Protection System—Seattle, Wash.—The lowest bid submitted to the Seattle Port Commission for the installation of a fire protection system in the Smith's Cove warehouse, was that of the Rautman Plumbing & Heating Co., at $15,379, with an alternate bid of $14,739.

✚Dredge—Tacoma, Wash.—The contract for building a 20-in. electric dredge to be used by King and Pierce Counties in the Stuck River Flood Improvement has been awarded to TWEEDEN & MARSH, Tacoma, at $72,000.

✚Dock—Portland, Ore.—The Southern Pacific Co. has awarded the contract for the construction of a timber, level dock, at East Burnside and Gilsan St., to the GUTHRIE-McDOUGAL CO., Portland, at $50,000. Noted Sept. 24.

Dock Work—Portland, Ore.—The city has disposed of the $100,000 bond issue to be used for the construction of docks. Plans for the additional work will be prepared at once.

Dock and Shed—Portland, Ore.—The Oregon-Washington R.R. & Navigation Co. has received a permit for the construction of a dock and shed at the foot of East Fremont St. The estimated cost is $85,000.

Subway—Bakersfield, Calif.—The city of Bakersfield and the Southern Pacific Co. plan to construct a subway for the elimination of the grade crossing at Baker St. and the Southern Pacific Ry. The estimated cost is $100,000.

Fire Alarm Systems—Fresno, Calif.—The Fire Commissioners have under consideration the installation of a 300-box fire alarm system.

✚Pipe Line—Martinez, Calif.—The Dutch Shell Oil Co. has awarded the contract for excavation for a pipe line from Coalinga to Martinez, 180 miles, to R. S. LANE, Los Angeles, at 3¾c. per lin.ft.

Dredge—San Diego, Calif.—Col. W. H. Holabird, receiver for the California Development Co., has been authorized by Judge Meyers to purchase a dredge for use in the Alamo Canal, cost not to exceed $42,500.

✚Pile Work—San Francisco, Calif.—The State Board of Harbor Commissioners has awarded the contract for driving pile foundation for the Post Office to the HEALEY-TIBBITTS CONSTRUCTION CO., at $27,690.

Motor Fire Apparatus—San Francisco, Calif.—The Fire Commissioners will receive bids soon for furnishing the department with motor tractors, automobile pumping engines and combination chemical trucks. The estimated cost is $100,000.

Drydock—Long Point, Que.—The Canadian Vickers Co. plans to construct a 156x382-ft. drydock at Long Point. The estimated cost is $165,000.

Creek Improvement—New Dublin, Ont.—Bids reported desired until Nov. 7 for removing rock and earth from the bed of Mud Creek. S. B. Code, Smith's Falls, is Mun. Engr. For further information address Township Clerk, New Dublin.

Dike and Ditch—Richmond, B. C.—An 8-ft. dike and a 20-ft. ditch will be constructed at Richmond. The estimated cost is $26,000. Cleveland & Cameron, Vancouver, B. C., are Consult. Engrs.

BUILDINGS

✚Auburn, Maine—The contract for the construction of the Home for Aged Women has been awarded to T. F. MOREAU, 468 Lisbon St., Lewiston. It will be three stories, of brick. Gibbs & Pulsifer, Lewiston, are the Archs.

✚North Haverhill, N. H.—The contract for the construction of the library at North Haverhill has been awarded to the H. P. CUMMINGS CONSTRUCTION CO., Woodsville. F. Lyman Clark, 175 Dartmouth St., Boston, is the Arch.

Brattleboro, Vt.—See item under Bridges.

St. Johnsbury, Vt.—C. R. Crandall, Arch., Burlington, is preparing plans for the additions to the St. Johnsbury Hotel.

✚Arlington, Mass.—The contract for the construction of a high school on Massachuestts Ave. has been awarded to the LIGHT, HEAT & POWER CO., 77 Franklin St., Boston. E. S. Prescott, 12 Pearl St., Boston, is the Arch.

Long Island (Boston post office), **Mass.**—Bids will be received until Nov. 12, by the Infirmary Trustees, for the erection of three buildings at Long Island. Noted Oct 22.

Milton, Mass.—Plans are being prepared by Parker, Thomas & Rice, Archs., 110 State St., Boston, for the construction of a town hall. The estimated cost is $200,000.

✚Plymouth, Mass.—The contract for the construction of the three-story brick and reinforced concrete building at Plymouth, has been awarded to the HANCOCK ENGINEERING CO., 79 Chestnut St., Boston. R. T. C. Jackson, Boston, is the Arch. The estimated cost is $35,000.

✚Salem, Mass.—The contract for the construction of the four-story building at Lafayette and Harbor St., for Dr. Emil Poirer, has been awarded to JOHN J. FLYNN & SON, 59 Summer St. George H. Fanning, 221 Essex St., is the Arch.

Salem, Mass.—Bids will soon be received by Little & Brown, Archs., for the Masonic Temple to be erected at Salem. The estimated cost is $150,000.

Southbridge, Mass.—Peabody & Sterns, Archs., 53 State St., Boston, are preparing plans for the high school at Main and Marcy St.

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SEWERS, PLAINFIELD, N. J.

✚Bids were received, Oct. 7, by the Sanitary Sewerage Commission, for constructing sewers. For Contract A (trunk sewer), bids were submitted by (A) CAULDWELL-WINGATE CO. & ATLANTIC CONSTRUCTION & SUPPLY CO., New York, N. Y. (awarded contract); (B) John C. Scrade, Inc., Brooklyn, N. Y.; (C) Fusco Construction Co., Newark, N. J.; (D) Schneider Stelle Co., New Brunswick; (E) George P. Olcott & Son, Orange; (F) Keley-McFeeley Co., Camden; (G) H. C. Brooks Co., Inc., Martinsburg, W. Va.; (H) T. Foster Callahan, Elizabeth; (I) Merrill-Ruckgaber Co., New York, N. Y.; (J) Ryan & Reilly Co., Baltimore, Md.; (K) William McCarthy, Baltimore, Md.; (L) H. K. Corbin Co., Inc., New York, N. Y.; (M) John W. Heller, Newark; (N) Joseph L. Sigretto & Co., Woodhaven, N. Y.; (O) Whiting-Turner Construction Co., Baltimore, Md.; (P) New York & New Jersey Construction Co., Newark; (Q) Charles Ippolito, Orange; (R) Edward L. Bader, Atlantic City; (S) Michael Garafano & Di Napoli & Toriello Construction Co., Summit; (T) Stobaugh Contracting Co., New York, N. Y.; (U) J. B. Pennell & Co., Yonkers, N. Y. For Contract B (sewage disposal works, bids were submitted by (A) EDWARD L. BADER, Atlantic City (awarded contract); (B) Fusco Construction Co., Newark; (C) Herbert O. Gardiner & Andrew T. Van Cleve, Asbury Park; (D) Suburban Engineering Co., New York, N. Y.; (E) Pitt Construction Co., Inc., Pittsburgh, Penn.; (F) Joseph L. Sigretto, Woodhaven, N. Y.; (G) Cauldwell-Wingate Co. & Atlantic Construction & Supply Co., New York, N. Y.; (H) Arthur E. Smith, Plainfield; (I) John W. Heller, Newark; (J) George P. Olcott & Son, Orange; (K) Mason Hilton & Co., New York, N. Y.; (L) Eon Engineering & Construction Co., Long Island City, N. Y.; (M) Kelley-McFeeley Co., Camden; (N) New York & New Jersey Construction Co., Newark; (O) Louis B. Cleveland, Watertown, N. Y.; (P) Schneider-Stelle Co., New Brunswick; (Q) Charles Ippolito, Orange; (R) Pratt, Reed, Phillips & Co., Schenectady, N. Y. (S) Engineers estimate. The item bids were as follows:

	Contract A																								
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S						
20,000 cu.yd. earth excavation	$0.75	$0.50	$0.75	$0.40	$0.60	$1.00	$0.70	$0.35	$0.64	$0.55	$0.90	$0.90	$0.49	$1.25	$0.95	$0.60	$0.80	$1.25	$0.80						
8000 cu.yd. rolled embankment	0.40	0.52	0.50	0.25	0.30	0.25	0.45	0.27	0.25	0.40	0.20	0.40	0.59	0.75	0.50	0.65	0.65	0.30	0.40						
2 acre seeding	100.00	250.00	25.00	30.00	100.00	50.00	25.00	50.00	150.00	50.00	20.00	20.00	25.00	150.00	100.00	75.00	50.00	200.00	100.00						
2000 sq.yd. sodding	0.10	0.25	0.50	0.25	0.15	0.50	0.10	0.36	0.30	0.35	0.20	0.20	0.13	0.25	0.30	0.10	0.30	0.50	0.20						
2000 sq.yd. macadam roads and walks (lump sum)	1.50	0.80	0.75	0.90	1.20	0.75	0.75	0.63	0.75	0.80	0.60	0.50	0.90	1.50	1.25	1.10	1.00	1.25	0.50						
Preliminary settling tanks (lump sum)	34,000.00	34,700.00	31,500.06	36,000.00	30,000.00	33,569.00	38,435.00	39,400.00	47,085.00	40,000.00	41,000.00	46,376.00	38,000.00	47,000.00	58,935.00	64,000.00	56,110.00	39,300.00							
Dosing tank and apparatus (lump sum)	3,700.00	3,500.00	5,620.64	4,500.00	3,200.00	3,000.00	4,084.00	4,877.00	5,000.00	3,021.00	5,000.00	3,000.00	4,016.00	6,500.00	5,000.00	4,202.00	3,800.00	3,485.00	10,600.00						
Sprinkling filter (lump sum)	49,000.00	68,700.00	70,127.05	76,000.00	86,000.00	78,600.00	78,541.00	74,825.00	77,731.00	82,298.00	82,500.00	94,000.00	86,173.00	80,000.00	90,000.00	91,360.00	87,000.00	97,950.00	59,500.00						
Sludge-drying bed (lump sum)	4,500.00	3,700.00	3,563.82	3,650.00	3,200.00	4,200.00	4,000.00	3,791.00	3,000.00	3,400.00	5,000.00	3,000.00	5,008.00	7,000.00	5,800.00	4,477.00	5,000.00	7,095.00	3,250.00						
Final settling tank (lump sum)	16,000.00	12,000.00	11,099.97	11,150.00	9,600.00	12,250.00	10,796.00	20,086.00	13,700.00	9,466.00	11,500.00	12,000.00	17,167.00	14,400.00	15,000.00	20,143.00	24,600.00	23,258.00	14,000.00						
Laboratory building (lump sum)	1,500.00	1,900.00	2,768.90	2,750.00	2,300.00	1,300.00	3,104.00	3,207.00	2,500.00	5,000.00	2,000.00	2,000.00	2,580.00	4,500.00	3,000.00	2,800.00	3,000.00	4,000.00	3,500.00						
50 cu.yd. additional concrete	10.00	10.00	7.00	10.50	10.00	6.00	12.00	10.00	8.00	10.00	12.00	8.00	10.00	10.00	15.00	14.00	20.00	16.00	10.00						
5000 lb. additional steel reinforcement	0.05	0.04	0.02½	0.03	0.03	0.03	0.04	0.02½	0.04	0.02½	0.03	0.03	0.05	0.05	0.05	0.03	0.05	0.04	0.04						
20 lin.ft. additional concrete channels, 36-in.	5.00	1.50	2.50	5.00	3.00	5.00	3.00	3.00	5.00	5.50	4.00	3.00	10.00	2.50	10.00	3.50	6.00	8.00	3.50						
20 lin.ft. additional concrete pipe, 36-in.	6.00	3.00	2.50	3.75	3.00	4.00	3.00	3.50	4.00	5.50	5.00	4.00	10.00	2.50	10.00	6.00	4.00	5.00	3.50						
20 lin.ft. additional concrete pipe, 30-in.	5.00	2.50	2.00	3.00	2.50	4.00	3.00	3.00	3.50	4.50	4.00	3.00	9.00	2.00	9.00	5.00	3.50	4.00	3.00						
20 lin.ft. additional c.i. line, 30-in.	4.00	3.25	5.25	5.50	5.00	4.00	4.00	4.00	7.00	3.80	9.00	7.00	5.06	6.00	5.00	5.50	6.00	7.50	5.00						
50 lin.ft. additional c.i. line, 8-in.	0.80	1.00	1.29	0.80	0.80	0.70	0.70	0.98	1.00	0.65	1.30	0.85	1.58	0.70	1.50	1.10	2.00	1.10	0.80						
20 lin.ft. additional c.i. line, 6-in.	0.60	0.75	1.04	0.60	0.60	0.60	0.60	0.72	0.75	0.50	1.00	0.75	1.27	0.50	1.00	1.00	1.75	0.80	0.70						
20 lin.ft. additional vitrified pipe line, 8-in.	0.50	0.20	0.75	0.35	0.25	0.35	0.15	0.20	0.30	0.15	0.25	0.30	0.81	0.16	0.30	0.90	0.75	0.28	0.40						
2500 lin.ft. c.i. pipe line, 4-in.	0.40	0.37	0.58	0.50	0.40	0.40	0.57	0.55	0.50	0.65	1.00	0.60	0.45	0.35	0.70	0.58	1.33	1.08	0.40						
400 lin.ft. galvanized pipe line, 2-in.	0.20	0.15	0.39	0.35	0.25	0.20	0.20	0.25	0.30	0.19	0.25	0.25	0.24	0.15	0.35	0.35	0.25	0.25	0.13						
400 lin.ft. galvanized pipe line, 1¼-in.	0.15	0.15	0.34	0.30	0.20	0.20	0.25	0.22½	0.20	0.15	0.20	0.20	0.21	0.10	0.25	0.25	0.20	0.20	0.11						
3 fire hydrants and gates	50.00	35.00	44.00	50.00	40.00	60.00	40.00	45.00	50.00	55.00	75.00	50.00	34.95	150.00	40.00	40.00	50.00	75.00	60.00						
Extended totals	$133,102	$143,634	$149,032	$149,849	$154,077	$156,434	$156,465	$159,285	$161,342	$170,002	$171,500	$180,523	$181,406	$187,783	$196,341	$205,020	$216,995	$231,475	$153,588						

	Contract A																					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
150 lin.ft. 42-in. reinforced concrete sewer without excavation	$2.30	$2.50	$3.27	$3.08	$2.90	$2.92	$3.50	$3.50	$3.10	$2.56	$3.80	$3.50	$3.50	$5.50	$4.00	$3.50	$4.83	$5.43	$6.32	$5.35	$6.00
4000 lin.ft. 42-in. reinforced concrete sewer 6 ft. deep	2.54	3.00	3.90	3.30	3.82	3.34	3.50	3.80	3.40	3.47	3.95	4.80	4.50	5.50	4.73	4.00	5.11	6.50	7.10	5.90	7.68
8500 lin.ft. 42-in. reinforced concrete sewer 6 to 8 ft. deep	2.93	3.15	4.17	3.40	4.03	3.55	4.00	4.00	3.85	3.76	4.45	5.00	5.25	5.50	5.37	4.50	5.94	6.64	7.40	6.50	8.15
1400 lin.ft. 42-in. reinforced concrete sewer 8 to 10 ft. deep	3.50	3.35	4.35	3.77	4.88	4.21	5.45	4.25	4.60	4.67	4.80	5.25	6.10	5.50	6.32	5.00	6.83	8.19	8.12	7.50	9.45
1400 lin.ft. 42-in. reinforced concrete sewer, 10 to 12 ft. deep	3.80	3.70	4.67	3.95	5.32	4.55	6.20	4.60	5.10	4.99	5.33	6.25	6.80	5.50	6.93	5.50	8.17	9.65	8.57	8.10	10.67
600 lin.ft. 42-in. reinforced concrete sewer, 12 to 14 ft. deep	4.21	4.15	5.00	4.25	5.88	5.22	7.40	5.25	5.80	5.67	6.45	7.50	7.80	5.50	7.67	6.00	10.52	11.00	9.32	8.50	12.60
100 lin.ft. 42-in. reinforced concrete sewer, 14 to 16 ft. deep	4.85	4.65	5.50	4.75	6.60	5.89	9.00	6.75	7.00	6.34	7.00	8.50	9.00	5.50	8.39	6.50	14.35	12.00	10.82	9.00	13.50
5000 lin.ft. laying 20-in. c.i. siphon, 6 ft. deep	1.20	0.80	0.77	0.80	0.80	0.96	0.60	1.00	1.25	1.41	0.85	0.80	1.10	2.00	1.88	2.70	2.00	3.00	3.10	3.00	2.50
1500 lin.ft. laying 20-in. c.i. siphon, 6 to 8 ft. deep	1.35	0.90	0.85	1.26	1.06	1.18	0.90	1.20	1.65	1.58	1.00	0.85	1.40	2.00	2.15	2.90	2.90	3.71	3.37	3.30	3.16
800 lin.ft. laying 20-in. c.i. siphon, 8 to 10 ft. deep	1.53	1.05	1.00	2.06	1.35	1.84	1.20	1.50	2.10	1.78	1.50	1.00	2.25	2.00	2.40	3.10	3.59	7.20	3.65	3.50	4.34
100 lin.ft. laying 20-in. c.i. siphon, 10 to 12 ft. deep	2.00	1.25	1.25	3.95	1.72	2.37	1.80	2.00	2.50	2.08	2.00	1.25	2.85	2.00	2.67	3.40	4.38	8.70	4.00	3.70	5.87
100 lin.ft. laying 20-in. c.i. siphon, 12 to 14 ft. deep	2.50	1.50	1.75	5.90	2.00	2.59	2.40	2.35	3.10	2.58	2.35	1.50	3.25	2.00	2.92	3.70	5.58	9.70	4.60	4.20	7.79
50 lin.ft. laying 20-in. c.i. siphon, 14 to 16 ft. deep	3.45	1.80	2.50	8.20	2.30	3.51	3.45	2.65	4.10	3.05	2.50	2.00	4.15	2.00	3.18	4.00	7.26	12.00	5.15	4.50	11.27
Laying c.i. force main																					
4000 lin.ft. 8-in. 6 ft. deep	0.40	0.35	0.42	0.36	0.32	0.55	0.43	0.50	0.80	0.68	0.55	0.30	0.50	0.75	0.68	0.50	1.11	0.73	1.15	0.95	1.62
300 lin.ft. 8-in. 6 to 8 ft. deep	0.46	0.40	0.47	0.56	0.53	0.63	0.58	0.85	1.00	0.75	0.70	0.35	0.60	0.75	0.93	1.00	1.51	1.13	1.28	1.10	1.82
200 lin.ft. 8-in. 8 to 10 ft. deep	0.55	0.50	0.52	1.16	0.79	1.13	0.75	1.10	1.40	0.94	0.90	0.50	0.75	0.75	1.10	1.25	2.05	1.60	1.55	1.20	2.68
100 lin.ft. 8-in. 10 to 12 ft. deep	0.73	0.70	0.65	2.96	1.17	1.52	1.00	1.50	1.85	1.26	1.15	0.70	0.90	0.75	2.22	1.60	2.70	4.00	1.75	1.35	3.27
50 lin.ft. 8-in. 12 to 14 ft. deep	0.93	0.95	0.80	4.75	1.60	2.46	1.25	1.80	2.40	1.33	1.25	1.00	1.20	0.75	2.60	2.00	3.76	4.50	2.10	1.75	4.32
50 lin.ft. 8-in. 14 to 16 ft. deep	1.08	1.25	1.00	7.10	1.90	3.45	1.75	2.15	3.25	1.86	1.50	1.50	1.50	0.75	3.07	2.40	5.06	5.00	2.50	2.00	5.06
680 tons c.i. pipe	21.42	23.00	22.50	21.60	21.00	21.15	24.53	24.50	27.00	23.28	21.50	20.50	24.50	22.00	19.85	30.00	25.00	21.40	28.00	27.60	25.00
5 tons c.i. specials	61.00	95.00	65.00	55.00	82.00	58.88	60.00	80.00	70.00	66.00	100.00	55.00	75.00	36.00	75.00	55.00	70.00	87.00	60.00	70.00	60.00
30 standard manholes, all depths	30.00	45.00	55.00	59.25	65.00	47.00	60.00	60.00	70.00	50.00	60.00	55.00	35.00	40.00	60.00	70.00	45.00	55.00	40.00	80.00	100.00
2 spec'l cl'n'g manholes, Pl'nfld and main trunk siphons, Type A	707.00	850.00	250.00	542.00	322.00	910.42	300.00	300.00	680.00	660.00	500.00	360.00	150.00	40.00	400.00	450.00	574.60	220.00	225.00	700.00	412.00
2 spec'l cl'n'g manholes, Rock Av. and Gr'n Br'k, Type B	809.00	1250.00	300.00	778.00	660.00	1181.00	1150.00	900.00	1200.00	990.00	625.00	520.00	200.00	40.00	785.00	700.00	930.00	380.00	375.00	1300.00	906.25
2 spec'l cl'n'g manholes, Darling Farm and Gr'n Br'k, Type C	957.00	1100.00	400.00	639.00	611.00	1078.00	700.00	1000.00	1200.00	1080.00	625.00	550.00	200.00	40.00	750.00	700.00	886.00	380.00	375.00	1250.00	713.75
1 siphon chambers, Rock Av. at Pl'nfld outfall sewer	646.00	425.00	200.00	594.00	344.00	655.00	450.00	300.00	420.00	675.00	700.00	290.00	200.00	40.00	310.00	400.00	450.00	600.00	425.00	350.00	500.00
1 siphon chambers, Rock Av. at Green Brook Road	681.00	500.00	350.00	345.00	328.00	943.00	525.00	500.00	420.00	750.00	700.00	430.00	200.00	40.00	415.00	560.00	479.00	430.00	425.00	475.00	500.00
1 siphon chambers Cramer Farm-main trunk siphon	675.00	500.00	250.00	403.00	380.00	795.00	485.00	400.00	420.00	650.00	700.00	335.00	200.00	40.00	275.00	600.00	408.00	250.00	600.00	400.00	383.00
1 siphon chambers, Darling Farm-main trunk siphon	588.00	500.00	250.00	320.00	280.00	795.00	325.00	300.00	280.00	585.00	700.00	240.00	200.00	40.00	250.00	350.00	239.00	450.00	600.00	300.00	375.00
4 siphon chambers effluent outfall	512.00	750.00	250.00	372.00	254.00	742.00	335.00	400.00	315.00	535.00	500.00	250.00	300.00	40.00	275.00	450.00	389.00	150.00	325.00	450.00	490.00
1 str'm cross'g, Rock Av. and Green Brook	470.00	500.00	250.00	2130.00	350.00	539.00	500.00	1000.00	650.00	1000.00	1600.00	750.00	1500.00	1100.00	1600.00	3000.00	500.00	2700.00	1500.00	4000.00	900.00
1 str'm cross'g, Dunellen force main and Green Brook	500.00	500.00	100.00	480.00	150.00	489.00	200.00	500.00	210.00	950.00	2000.00	250.00	200.00	1100.00	900.00	2000.00	500.00	100.00	800.00	3000.00	800.00
1 str'm cross'g, main trunk siphon and Green Brook	700.00	500.00	100.00	1200.00	250.00	489.00	300.00	600.00	530.00	950.00	1200.00	900.00	500.00	1100.00	900.00	2000.00	700.00	500.00	1350.00	3000.00	800.00
1 str'm cross'g, effluent outfall and Green Brook, upper	700.00	500.00	100.00	1200.00	250.00	489.00	300.00	600.00	500.00	1200.00	2000.00	1000.00	500.00	1100.00	1500.00	1500.00	900.00	500.00	1200.00	3000.00	1250.00
1 str'm cross'g, effluent outfall and Green Brook, lower	700.00	500.00	100.00	575.00	300.00	489.00	300.00	600.00	500.00	1200.00	700.00	1000.00	500.00	1100.00	1500.00	1500.00	900.00	1500.00	1200.00	3000.00	1875.00
1 measuring chamb. and appurtens, Rock Av. and Green Brook Road	1750.00	2375.00	1000.00	1375.00	1340.00	907.00	2150.00	1100.00	980.00	1300.00	1800.00	1020.00	500.00	600.00	1550.00	1500.00	1470.00	1100.00	250.00	1000.00	2500.00
1 Venturi meter and register, Plainfield	1224.00	1250.00	1000.00	1043.00	925.00	1547.00	1027.00	1150.00	350.00	1350.00	1000.00	950.00	1000.00	100.00	1175.00	1500.00	1000.00	1150.00	1325.00	1100.00	900.000
1 Venturi meter and register, N. Plainfield	950.00	950.00	750.00	750.00	675.00	1247.00	779.00	800.00	980.00	1050.00	800.00	700.00	750.00	750.00	900.00	900.00	700.00	800.00	1000.00	750.00	654.00
1 Venturi meter and register, Dunellen	856.00	750.00	600.00	554.00	525.00	694.00	628.00	650.00	750.00	860.00	550.00	550.00	625.00	600.00	750.00	600.00	600.00	600.00	750.00	675.00	503.00
100 cu.yd. rock excavation	4.00	4.75	4.00	3.00	3.00	5.00	3.00	5.00	2.80	3.00	3.00	3.00	2.50	0.01	4.00	5.00	3.00	2.50	3.00	4.00	3.00
30 cu.yd. extra earth excavation	0.75	2.00	0.69	2.00	0.50	1.50	2.00	2.00	1.40	3.00	2.00	1.50	0.60	1.00	2.00	0.60	3.00	1.50	0.50	1.50	2.00
200 cu.yd. additional concrete	10.00	10.00	9.00	12.00	9.00	10.00	8.50	10.00	10.00	9.00	7.00	7.50	8.00	6.00	10.00	9.00	15.00	8.00	6.50	15.00	15.00
5000 lb. additional reinforcement	0.03½	0.03	0.04	0.03	0.02	0.05	0.03½	0.04	0.04	0.06	0.04	0.03	0.04	0.03	0.06	0.05	0.05	0.05	0.04	0.05	0.05
4500 cu.yd. earth embankment and filling	0.55	0.30	0.75	0.90	0.30	0.40	0.60	0.60	0.30	0.40	0.30	0.75	0.45	0.01	0.30	0.50	0.75	0.40	0.40	0.50	0.75
50 cu.yd. broken stone and gravel filling	3.00	2.00	2.50	1.75	2.00	3.65	2.50	2.50	2.80	3.50	2.00	2.30	2.00	2.50	3.00	2.50	3.00	2.90	2.50	3.00	3.00
10 M. ft. b.m. lumber for foundations	40.00	45.00	50.00	48.00	40.00	45.00	50.00	50.00	50.00	40.00	45.00	40.00	40.00	40.00	40.00	50.00	60.00	50.00	40.00	50.00	50.00
10 M. ft. b.m. sheathing left in place	30.00	35.00	45.00	38.00	32.00	45.00	15.00	40.00	40.00	30.00	30.00	50.00	35.00	40.00	40.00	30.00	55.00	30.00	38.00	50.00	50.00
20 cu.yd. stone paving	5.00	4.00	3.00	6.00	2.00	3.95	7.50	3.00	2.80	4.50	5.00	5.00	3.00	3.00	10.00	5.00	5.00	10.00	2.50	6.00	5.00
4 air valves	15.00	25.00	15.00	15.00	16.00	10.00	20.00	25.00	35.00	5.00	10.00	25.00	25.00	50.00	15.00	25.00	20.00	10.00	15.00	50.00	5.00
7000 lin.ft. ¾-in. galv. wire rope in siphons	0.04	0.05	0.06	0.02	0.05	0.05	0.05	0.06	0.07	0.04	0.30	0.10	0.05	0.07	0.06	0.10	0.10	0.05	0.05	0.20	0.10
2000 lin.ft. piling	0.40	0.75	0.50	0.45	0.60	0.40	0.25	1.00	0.40	0.50	0.40	0.75	0.40	0.50	0.10	0.75	1.75	0.60	0.90	1.00	0.50
Extended totals	$100,909	$103,910	$109,779	$110,296	$110,462	$114,152	$117,551	$119,755	$122,585	$122,950	$127,169	$128,650	$133,075	$136,901	$146,759	$150,723	$171,573	$184,406	$194,574	$198,633	$217,241

✚Worcester, Mass.—The contract for the addition to the Harlow St. school has been awarded to ISRAEL GOLDMAN, 34 Jefferson St. The estimated cost is $62,000. John P. Kingston & Son, 318 Main St., are the Archs.

Plans have been prepared by John T. Simpson, Arch., Newark, N. J., and Fuller & Delano, Archs., Worcester, for additions to the North High School. George M. Wright is Mayor.

Dansville, N. Y.—Plans are being prepared by J. T. Comes and John Caxor, Cutler Bldg., for a school at Dansville, for St. Mary's R. C. Church. The estimated cost is $50,000.

✚New York, N. Y.—(Borough of Bronx)—The steel work for the hospital to be erected at Featherbed Lane and McCoombs Dam Park has been awarded to the KUES BROS. IRON WORKS, 175th St. and Carter Ave. Noted Sept. 24.

New York, N. Y. (Borough of Bronx)—(Official)—Bids were received for the addition to school No. 12, Frisby and Benson Ave., as follows: Matthew J. Crowley, $7947; Fallhee & McCaul, $9231; Harry Klein, $9139; Thomas E. O'Brien, Inc., $7897; Christopher Nally, $7656; Joseph E. Egan, $8560; Welles Newton Co., New York, $7993; Harry Kleincheirst, $7300. Noted Oct. 15.

✚New York, N. Y.—(Borough of Manhattan)—The foundation contract for the five-story store and loft building, at 120 West 41st St., has been awarded to CLARK & CO., 225 Fifth Ave., New York. Noted Sept. 17.

✚Syracuse, N. Y.—The contract for the construction of the addition to the County Home has been awarded to FRED A. CASWELL, Watertown, at $62,041.

✚Utica, N. Y.—The American Motion Picture Co. has awarded the general contract for the construction of a theater to GRIFFITH & PIERCE, Utica, at $125,000. Green & Wicks, 110 Franklin St., Buffalo, N. Y., are Archs.

Yonkers, N. Y.—H. Lansing Quick, Arch., 18 South Broadway, Yonkers, is receiving bids for the construction of a three-story building on North Broadway, for the Philipse Manor School.

Plans are being prepared by William E. Lehman, Arch., 738 Broad St., Newark, N. J., for the construction of a five-story theatre and office building, 100x180 ft., for Allen & Epstein, 1495 Broadway, New York. The estimated cost is $300,000.

Flemington, N. J.—Bids will be received, until Oct. 30, by Guida Higgins, Clk., Board of Education, for the construction of a two-story brick school at Flemington. The estimated cost is $45,000. J. N. Pierson & Son, 95 Smith St., Perth Amboy, N. J., is the Arch.

✚Jersey City, N. J.—The general contract for the school to be erected on Merseles St. has been awarded to W. H. & F. W. CANE, Woolworth Bldg., New York. The estimated cost is $225,000. Noted Oct. 1.

✚West New York, N. J.—The contract for the construction of the town hall has been awarded to GEORGE P. MARTIN, 366 Fifth Ave., New York, at $73,450. Henry Andes submitted a bid at $74,828. Noted Oct. 22.

✚Allentown, Penn.—The contract for the construction of the two-story armory at Allentown has been awarded to J. L. MENNOUGH & SON, Allentown, at $47,000.

✚Philadelphia, Penn.—The contract for the construction of the 12-story apartment building, at 22d and Walnut St., for the West Walnut St. Apartment Co., has been awarded to the MOCKETT CONSTRUCTION CO., Philadelphia, Penn. The estimated cost is $137,000.

Philadelphia, Penn.—The County Medical Society is planning the erection of a building at 22d and Ludlow St. The estimated cost is $1,000,000.

Philadelphia, Penn.—Plans are being prepared by M. H. Dickinson, Empire Bldg., Philadelphia, for the construction of a two-story reinforced concrete addition at 23d and Chestnut St., to the Auto Sales & Service Bldg.

✚Pittsburgh, Penn.—The contract for the construction of the one-story high schol for St. Paul's congregation has been awarded to the DUQUESNE CONSTRUCTION CO., Pittsburgh, at $100,000.

Scranton, Penn.—Albert J. Ward, Arch., Scranton, is preparing plans for the clubhouse to be erected for the Y. M. H. A.

Waynesboro, Penn.—Bids will be received about Nov. 1, by J. W. Woltz, Arch., Waynesboro, for the construction of a three-story brick theater and apartment building for the Waynesboro Arcade Co. The estimated cost is $100,000.

✚Wilmington, Del.—The contract for the granite work to be used on the exterior of the municipal building at Tenth and French St., has been awarded to the WEBB PINK GRANITE CO., Worcester, Mass., at $300,000.

Baltimore, Md.—Plans are being prepared by F. F. Faris, Arch., Schmulbach Bldg., Wheeling, for a two-story convent, to be constructed for the Carmelite Sisters at Caroline and Biddle St.

✚Elkton, Md.—The contract for constructing the armory at Elkton, has been awarded to LEVI E. PATTERSON, Perryville, Md.

✚Lexington, Va.—(Official)—The contract for the construction of the gymnasium for the Washington and Lee University has been awarded to M. B. STODDARD, Staunton, Va. Noted Oct. 8.

✚Richmond, Va.—The contract for the construction of the school at 35th and Bacon St., Richmond, has been awarded to J. T. NEIKOLS, at $33,210.

✚Richmond, Va.—Contracts for the construction of the Binford school have been awarded as follows: Reinforcing steel, TRUSSED CONCRETE STEEL CO., Youngstown, Ohio; granite, RICHMOND GRANITE CO.; sheet metal, N. W. MARTIN & BRO.; limestone, HOADLEY STONE CO., Bloomington, Ind.; structural steel and architectural iron, DIETRICH BROS., Pleasant and Davis St., Baltimore. Noted June 4.

✚The contract for the construction of the school at 35th and N St. has been awarded to J. T. NUCKOLS, Richmond. The estimated cost is $40,000.

✚Roanoke, Va.—Contracts for the construction of the Y. M. C. A. building have been awarded as follows: Limestone, BOWMAN & KING STONE CO., Bloomington, Ind.; granite, LEMMERMAN & HOFFMAN GRANITE CO., Mt. Airey, N. C.; lumber, CENTRAL MFG. CO.; mill work, VIRGINIA LUMBER MFG. CO.; structural steel and iron work, VIRGINIA BRIDGE & IRON CO., all of Roanoke.

Charleston, S. C.—Plans have been completed for the erection of a hotel for C. B. Hueit. The estimated cost is $600,000.

Tampa, Fla.—Plans are being prepared by Fred J. James, Arch., Tampa, for the four-story, 95x95-ft. mercantile building for the Gray Ball Realty Co. The estimated cost is $50,000.

✚West Palm Beach, Fla.—The contract for the construction of the court house at West Palm Beach has been awarded to EWERT P. MAULE, at $190,000.

Birmingham, Ala.—Plans are being prepared by W. Leslie Welton, Arch., Birmingham, for the construction of a three-story manual training school. The estimated cost is $50,000.

✚New Orleans, La.—The general contract for the school on Milne St. has been awarded to MICHAEL CHESSI & CO., 5116 Magazine St. E. A. Christy, New Orleans, is the Arch.

New Orleans, La.—Bids will be received until Nov. 19, by R. Staigg, Secy., Bd. of Control, for the construction of buildings, electric system and a sewer system at the Leper's Colony, Iberville parish.

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Contracts for Dual System of Rapid Transit

FOR OPERATION BY NEW YORK MUNICIPAL RAILWAY CORPORATION

Broadway-Fifty-ninth St. Subway—(In Manhattan). Route No. 5

			Contract	Amount of	Item Bids Published in Engi-
1	Morris to Dey St.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	$1,222,269.20	Sept. 19, 1912
1-A	Dey St. to Park Pl.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	982,740.70	Sept. 19, 1912
2	Park Pl. to Walker St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Feb. 6, 1912	2,355,828.50	Feb. 1, 1912
2-A	Walker St. to Howard St.	O'Rourke Engineering Contracting Co., 345 5th Ave., N. Y.	July 17, 1912	912,351.60	April 11, 1912
3	Howard St. to Bleecker St.	Underpinning and Foundation Co., 290 Broadway, N. Y.	Jan. 19, 1912	2,295,096.50	Jan. 18, 1912
4	Bleecker St. to Union Sq.	Dock Contractor Co., 2 Rector St. N. Y.	Aug. 19, 1913	2,578,078.00	July 10, 1913
	Broadway (Manhattan)—Fourth Ave., (Brooklyn)—Routes Nos. 4 and 36				
1	Union Sq. to 26th St.	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Aug. 1, 1913	$2,056,702.50	Aug. 7, 1913
2	Broadway, 26th St. to 38th St.	United States Realty & Investing Co., 111 Broadway, N. Y.		2,657,004.00	May 7, 1914
5	59th and 60th St., 7th to 2d Ave.	Degnon Contracting Co., 30 E. 42d St., N. Y.		2,819,511.00	Nov. 20, 1913
	Canal St. Manhattan—Route 20				
2	In Canal St. from Bowery to Broadway	Underpinning & Foundation Co., 290 Broadway, N. Y.		$1,822,999.00	May 21, 1914
	Fourth Avenue Subway—(In Brooklyn)				
	Six sections, extending from Manhattan Bridge through Flatbush Ave. extension Fulton St., Ashland Pl. and Fourth Ave. to 43rd St. Contracts let in May, 1908; approved by Board of Estimate and Apportionment in October, 1909, and work begun in November, 1909			$19,348,818.01	
	Fourth Ave. Extension Subway—Route No. 11-B—(In Brooklyn)				
1	43rd St. to 61st St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	$1,930,258.50	Sept. 26, 1912
2	61st St. to 89th St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	1,904,171.25	Sept. 26, 1912
	Total			$3,834,429.75	
	Total—Fourth Ave. line and extension			19,848,818.01	
	Brooklyn Loop Line (Centre Street)—Route No. 9-O—(In Manhattan)				
	Extending from the Manhattan terminus of the Brooklyn Bridge under Centre St. and Delancey St. extension to Williamsburg Bridge, with spur at Canal St. to the Manhattan Bridge (including real estate, but not engineering, etc.)			$12,384,896.49	
	New Utrecht Ave. Elevated Line—Route No. 39—(In Brooklyn)				
2	39th St. to Coney Is.	Post & McCord, Inc., 101 Park Ave., N. Y.	Dec. 31, 1913	$1,672,190.00	Dec. 4, 1913
	Route No. 33—In Manhattan				
1	Trinity Place and Warren St. to South St.	Booth & Flinn Ltd., 3785 Broadway, N. Y.		$2,059,182.00	April 23, 1914
2	Montague Tunnel	* Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		5,974,869.00	June 4, 1914

Contracts for Dual System of Rapid Transit—Continued

FOR OPERATION BY INTERBOROUGH RAPID TRANSIT CO.

Seventh Ave.-Lexington Ave. Subway—Routes Nos. 5, 19 and 22, 43, 16, 4 and 38, 9 and 48

6	26th St. to 40th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	$3,634,213.50	Nov. 3, 1910

* Work stopped on April 26, 1912, on account of change in routing of this branch.

Lexington Avenue Branch—Route No. 5

7	43d St. to 53d St.	Rapid Transit Subway Construction Co., 165 Broadway, New York		$1,915,164.00	June 25, 1914
8	53rd St. to 67th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	$3,369,484.20	Nov. 3, 1910
9	67th St. to 79th St.	P. McGovern & Co., 1 Madison Ave., N. Y.	Feb. 13, 1912	1,961,997.00	Dec. 14, 1911
10	79th St. to 93rd St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,253,072.80	Nov. 3, 1910
11	93rd St. to 106th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,132,195.05	Nov. 3, 1910
12	106th St. to 118th St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Sept. 3, 1911	2,825,740.74	Nov. 3, 1910
13	118th St. to 129th St.	Bradley Contracting Co., 1 Madison Ave., N. Y. (Assigned to McMullen, Snare & Triest, Inc.)	Nov. 17, 1911	4,071,416.50	Nov. 3, 1911
14	129th St. to 135th St.	Arthur McMullen & Olaf Hoff, 149 Broadway, N. Y.	July 23, 1912	3,889,775.05	June 16, 1912
15	135th St. to 157th St.	Hagerty-Drummond Co., 48 Park Row, N. Y. (Assigned to Rogers & Hagerty)	Nov. 17, 1911	3,820,129.75	Nov. 3, 1910
Total				$26,323,811.09	

Southern Boulevard Branch—Routes Nos. 19 and 22 (In the Bronx)

1	138th St. to 147th St.	John F. Stevens Construction Co., 55 Wall St., N. Y. (Assigned Oct. 23, 1913 to Richard Carvel Co., Inc., 401 West 59th St., N. Y.)	Oct. 22, 1912	$2,253,281.75	Sept. 26, 1912
1-A	147th St. to Bancroft St.	Rodgers & Hagerty, E. 152nd St. and Harlem River, N. Y.		2,253,159.25	Dec. 11, 1913
Total				$4,506,441.00	

Jerome Avenue Branch—Route No. 16—(In the Bronx)

1	157th St. to 182nd St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Dec. 31, 1913	$1,077,978.00	Dec. 11, 1913
2	182nd St. to Woodlawn Road	Cooper & Evans, 220 Broadway, N. Y.		1,075,831.00	Feb. 19, 1914

Seventh Avenue-Lexington Ave.—Routes Nos. 4 and 38

1	Battery Park to Greenwich and Vesey St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$2,120,000.00	April 30, 1914
1-A	Connection from 7th Ave. Subway to present subway	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$474,244.00	June 18, 1914
2	Vesey to Beach St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Mar. 1914	3,059,522.00	Dec. 11, 1913
3	Beach St. to Commerce St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 31, 1913	2,185,063.50	Nov. 20, 1913
4	Commerce St. to 16th St.	United States Realty & Improvement Co., 111 Broadway, N. Y.	Mar. 6, 1913	1,837,726.00	Mar. 12, 1914
5	16th St. to 30th St.	Canavan Bros., N. Y.	Dec. 31, 1913	2,401,306.75	Nov. 20, 1913
6	30th St. to 43rd St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Dec. 31, 1913	2,292,000.00	Jan. 8, 1914
6-A	43rd to 45th St. Times Sq.	Holbrook Cabot & Rollins Corp., 331 Madison Ave. N. Y.		421,566.00	May 28, 1914
Total				$14,790,428.25	

White Plains Road Line—Route No. 18—(In the Bronx)

1	180th St. to Burke Ave.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Mar. 16, 1914	914,400.00	Feb. 19, 1914
2	Burke Ave. to 241st St.	Alfred P. Roth, Broad St., N. Y.	Dec. 31, 1913	958,484.00	Dec. 4, 1913

†Woodside, Astoria and Corona Line—Routes Nos. 36 and 37—(In Queens)

1	Queensboro Bridge Plaza	Snare & Triest, 143 Liberty St., N. Y.	Oct. 7, 1913	$884,859.00	Aug. 28, 1913
2	Astoria Line	Cooper & Evans, 220 Broadway, N. Y.	Mar. 11, 1913	860,743.50	Feb. 13, 1913
3	Corona Line	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Mar. 11, 1913	2,063,588.00	Feb. 13, 1913
Total				$3,809,190.50	

Steinway Tunnel Extension—Route No. 50—(In Queens)

	Davis St. and Ely Ave., Van Alst Ave. to Queensboro Bridge	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 1, 1913	$557,857.50	

Route 48

3	Clark Tunnel	*Booth & Finn Ltd., and O'Rourke Engineering & Contracting Co.		$6,469,916.00	June 4, 1919

Lutheran Cemetery and Myrtle Ave. Connection

2		Phoenix Bridge Co., 49 William St., N. Y.		$707,661.00	
2		F. W. Burnham, 30 East 42nd St., N. Y.	Mar. 1914	143,225.00	

Reconstruction Steinway Tunnel-Route 26

	42nd and Lexington Ave., under East River to Jackson and Alst Ave., L. I. City	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Feb. 17, 1914	$383,911.00	Feb. 26, 1914

Connection with Brighton Beach Line—Route 12

1	St. Felix St. and Ashland Pl. to Hanson Pl.	Cranford Co., 190 Montague St., Brooklyn		$2,195,296.00	June 25, 1914
1-A	In Flatbush Ave., between St. Marks Ave., Prospect Park Plaza	Cranford Co., 190 Montague St., Brooklyn		$2,225,519.25	April 9, 1914
1		Frederick L. Cranford, Inc., 177 Montague St., Brooklyn		1,571,363.00	Oct. 22, 1914
2		Smith, Hauser & MacIsaacs		2,254,670.00	Sept. 24, 1914

* Awarded two contracts jointly.

† Trackage rights also to New York Municipal Railway Corporation.

†Alliance, Ohio—The contract for the construction of a two-story and basement City Hall building, 90x120 ft., has been awarded to GEORGE B. McMULLAN CO., 1749 East 55th St., Cleveland. Estimated cost, $75,000.

Cincinnati, Ohio—Harry Hake, Arch., Provident Bank Bldg., is preparing plans for the construction of a convention hall, to cost $250,000.

Lakewood, Ohio—John Warner, Arch., Marion Bldg., Cleveland, has prepared plans for the construction of a building on West 114th St., for the Highland Congregational Church. Estimated cost, $40,000.

Lakewood, Ohio—Charles W. Hopkinson, Arch., Rose Bldg., Cleveland, has prepared plans for the construction of a library to cost $50,000.

Lorain, Ohio—H. G. Ford, Arch., has prepared plans for the construction of a three-story fireproof high school. Estimated cost, $150,000.

Toledo, Ohio—Mills, Rhines, Bellman & Nordhoff, Archs., are preparing plans for the construction of a hotel at Jefferson Ave. and St. Clair St., for W. D. Stroud, Los Angeles, Calif. Estimated cost, $400,000.

Battle Creek, Mich.—Plans are being prepared by M. J. Morehouse, Arch., 343 S. Dearborn St., Chicago, Ill., for a five-story and basement hall building, 60x100 ft., for the Kellogg Toasted Corn Flake Co., Battle Creek. Estimated cost, $150,000.

Detroit, Mich.—Stahl, Kinsey & Chapman, Archs., 117 Fort St. West, are preparing plans for the construction of a two-story and basement, 75x75-ft. church for the Bethany Presbyterian congregation. Estimated cost, $75,000.

Antigo, Wis.—P. J. Hansen & Co. are contemplating the construction of a theater, 44x185 ft., at Antigo.

Horison, Wis.—Plans are being prepared by H. W. Buemming, Arch., 521 Jackson St., Milwaukee, for the construction of a three-story and basement, 52x160-ft. building for the Travelers Hotel Co.

Milwaukee, Wis.—Brust & Philipp, Archs., Free Press Bldg., are preparing plans for the construction of a three-story and basement, 82x150-ft. building, for St. Catherine's Home for Working Girls, at 1131 Sycamore St. Estimated cost, $100,000.

Racine, Wis.—Guilbert & Funston, Archs. Robinson Block, are preparing plans for the construction of a two-story, 140x240-ft. grade school, gymnasium and auditorium at West Racine. The estimated cost is $100,000.

Superior, Wis.—F. E. Johnson, Arch., is preparing plans for the construction of a two-story and basement, 59x100-ft. theater for C. D. Armstrong, Ashland.

Union Grove, Wis.—Bids will be received, about Nov. 1, by M. J. Toppins, Secy. of the Home for Feeble-Minded and Epileptics, Capitol Bldg., Madison, for the construction of buildings for the institution at Union Grove. Estimated cost, $1,000,000.

✚**Glen Lake** (Hopkins post office), **Minn.**—The contract for the construction of the Hennepin County sanatorium has been awarded to JAMES PETERSON, Minneapolis. Estimated cost, $51,371. Noted Oct. 8.

St. Paul, Minn.—Thomas G. Holyoke, Arch., Endicott Bldg., is preparing plans for the construction of a clubhouse, estimated to cost $60,000. Dr. Haldor Sneve, 814 Lowry Bldg., is Chn. of the Bldg. Com.

Anaconda, Mont.—B. Bank contemplates constructing a four-story reinforced-concrete hotel. Estimated cost, $50,000.

✚**Carthage, Mo.**—The contract for the construction of the almshouse was awarded to P. J. McNERNEY. The estimated cost is $62,586. Noted Oct. 8.

Jefferson City, Mo.—Bids will be received about Apr. 1, 1915, for the construction of a seven-story bank building for the Jefferson Investment Co. Estimated cost, $115,000. Miller & Miller are the Archs. Noted Oct. 1.

✚**Kansas City, Mo.**—The contract for the construction of a three-story reinforced concrete office building at Eighth and Wyandotte St. has been awarded to HARVEY STIVER for John I. Glover. Estimated cost $50,000.

✚**Springfield, Mo.**—The Heer Andres Investment Co. has awarded the contract for 900 tons of steel for the six-story building for the Heer Dry Goods Co. to the CHRISTOPHER, SIMPSON STEEL & IRON CO., St. Louis. Noted Sept. 10.

Dallas, Texas—Plans are being prepared for the construction of an office building for the Texas & Pacific R.R. Co. Estimated cost, $600,000.

Tucson, Ariz.—The Federal Bldg Co., recently incorporated, contemplates the construction of an office building, to cost $250,000. Epes Randolph, L. H. Manning and Charles F. Solomon are interested.

Seattle, Wash.—Bids for the Columbia Branch library will be received soon by W. Marbury, Arch., 719 White Bldg. The structure will be of terra cotta, with slate roof and concrete foundations. Estimated cost, $50,000.

Portland, Ore.—N. N. Carpenter contemplates constructing a fireproof office building at Grand Ave. and East Alder St. Estimated cost, $80,000.

Berkeley, Calif.—The city contemplates the construction of five schools which will cost $500,000.

✚**Fresno, Calif.**—The School Board has awarded the contract for the construction of a two-story school, to D. A. EVANS. The estimated cost is $77,899.

Longbeach, Calif.—Homer Laughlin, Jr., Los Angeles, contemplates constructing a fireproof theater, to cost about $120,000.

✚**Los Angeles, Calif.**—The contract for the construction of a school, 95x117 ft., at 61st and Figueroa St., has been awarded to A. GRANT, 1202 West 37th St. The estimated cost is $66,700.

Oakland, Calif.—The Second Church of Christ, Scientist, is contemplating the construction of a building at 34th and Elm St. Estimated cost, $100,000.

Oakland, Calif.—Oscar Haupt, Arch., Phelan Bldg., San Francisco, is preparing plans for an addition to the California Altenheim, at Fruitvale and Hopkins St. Estimated cost, $50,000.

Oakland, Calif.—Plans are being prepared by George W. Patton, Arch., Berkeley, for the construction of a seven-story hotel at Tenth and Clay Sts. for O. J. Meade.

San Fernando, Calif.—John C. Austin, Arch., 1014 Wright & Callender Bldg., Los Angeles, is preparing plans for the construction of a two-story reinforced-concrete administration building, and for a two-story reinforced-concrete science building. Estimated cost, $150,000.

✚**Santa Cruz, Calif.**—The Board of School Trustees has awarded the contract for the construction of the Santa Cruz high school to PETERSON & WATSON, San Francisco, at $79,750.

Montreal, Que.—E. Payette, Arch., 103 St. Francois Xavier St., is preparing plans for the construction of the public library, estimated to cost $200,000.

Quebec, Que.—The City Council of Quebec contemplates constructing a boiler house on Beauport Rd., at $125,000. J. L. Pinsonnault, City Hall, is the Arch.

✚**Hamilton, Ont.**—Contracts for the construction of the two-story school on Wentworth St. North have been awarded as follows: T. JONES, masonry, $29,980; STUART BROS., carpentry, $10,497; HAMILTON BRIDGE WORKS CO., steel, $1779; CANADA WIRE GOODS CO., iron work, $2550.

North Bay, Ont.—The construction of the main building of the French R. C. Community will be started early in the spring. Estimated cost, $100,000.

✚**Toronto, Ont.**—The contract for the masonry on the Givens St. school has been awarded to ABERT WEBB, 13 Shirley St., at $85,900.

Toronto, Ont.—Bids will soon be received for the construction of an addition to the North Toronto high school.

Toronto, Ont.—Bids will be received, until Nov. 5, by S. B. Coon & Son, Archs., 409 Ryrie Bldg., for the construction of a two-story and basement, 80x133-ft. school at East Toronto. Estimated cost, $60,000.

Windsor, Ont.—D. G. Horsburgh, Arch., care of Canadian Bank of Commerce, Windsor, has the plans for the construction of a fireproof bank building for the Bank of Commerce. Estimated cost, $150,000.

Edmonton, Alta.—Plans are being prepared by Hardie & Markland, Archs., Edmonton, Alta., for the construction of a four-story 50x150-ft. office building, of reinforced concrete, brick and steel. The estimated cost is $125,000.

✚**Vancouver, B. C.**—The contract has been awarded to R. W. McLEAN & CO., Vancouver, for the excavation, concrete work and a portion of the electrical work for the Science Building for the British Columbia University.

Victoria, B. C.—The lowest bid has been submitted by C. W. Carkeek for constructing the proposed jail, at $55,208 for the entire building and $52,823 for the work less top story.

The Standard Scale & Supply Co., Pittsburgh, Penn., recently completed a contract for furnishing and installing weighing equipment for the Government of Uruguay at the Port of Montevideo.

On this contract the company earned $17,000 in bonus for finishing the work ahead of the contract time. This bonus it is claimed, was earned through the efficiency and simplicity of the Standard Low Charging Concrete Mixers. These, it is stated, were so well attended and packed as to be practically ready for work as soon as landed.

Subway Anniversary—The first section of New York City's subway has been in operation for ten years, having been first opened on Oct. 27, 1904. Within three years after its opening the subway was carrying 400,000 passengers daily. At the present time it carries upward of 1,000,000 passengers for each week day, and has carried over 1,200,000 in one day.

Walter E. Buckingham, formerly manager of sales for the National Bridge Works, has organized the Buckingham Steel Co., Inc., with offices at 50 Church St., New York. In the past has also been connected with Post & McCord; Millikel Bros. and the Lackawanna Steel Co. The company will carry a line of structural steel and merchant shapes and will be prepared to fabricate material for early shipment.

The National Tube Co., Frick Bldg., Pittsburgh, Penn., has recently shown a series of industrial motion pictures at the Raleigh Hotel, Washington, D. C., and the Monticello Hotel, Norfolk, Va., illustrating the manufacture of "National" pipe. The pictures showed clearly the treatment of the ore from the time it was taken from the mine until it became the finished product.

Manufacturers receive War Orders—Orders for army supplies of every description continue to occupy the center of the stage in many lines of domestic trade. Wire manufacturers report a good demand for their products, especially barbed wire. It is learned that an independent company in the last week was offered an order for 5000 tons of this commodity for export to Russia, shipments to begin immediately, but the concern could only promise 250 tons in November, and 750 tons during December, which was unsatisfactory, the order ultimately going to the American Steel & Wire Co., a subsidiary of the United States Steel Corporation, which, it is understood, took the whole of the order, calling for approximately 15,000 tons.

The Chilean R.R. contract calling for 300,000 tons of coal a year for a period of three years, which has been offered to producers in this country, is being carefully studied. Representatives of 12 different coal companies in the Pennsylvania district, advices say, have visited the offices of the Pittsburgh Foreign Trade Commission to examine the specifications. It is admitted that there are difficulties in the way of acceptance, such as the chemical differences between Pittsburgh coal and the variety to which the Chilean railroads have been accustomed, the matter of tariffs, facilities of shipment, etc., but it is believed all these will be overcome.

The placing of the contract calling for 300,000 tons of coal in the Pittsburgh district each year would mean employment for large numbers of miners during what is ordinarily a dull season. Further than that, it would mark the beginning of a probable series of heavy orders for our American coal from many other sources in South and Central America. In the matter of transportation, it is understood that there is a shipping concern at New Orleans ready to inaugurate the business, and the Atlantic Coast vessels of the United States Steel Corporation are ready to undertake to some extent the handling of South American cargoes of coal.

Many cities in the Middle and Southwest continue to report receipt of new orders from foreign buyers for such army supplies as saddles, harness, saddle rings, blankets, cotton fabrics, etc. Some of this business is also going to New England manufacturers, advices from Meriden, Conn., yesterday stating that F. J. Wallace, saddlery and hardware manufacturer, had shipped 15,000 saddle rings during the week to warring nations and has been asked to bid on an additional 72,000 rings and also upon 10,000 complete sets of harness, but, as the latter was not in his line, this order was turned over to Massachusetts firms.

South America Hard Hit—Unable to secure funds, with their credit tied up in Europe, South American merchants are anxious for goods, but unable to pay for them. There is an enormous amount of business in South America, which can be developed. The people there want the goods but they have not any means whereby payment may be made. The appointment of receivers by the Federal Court for a Brazilian railway is a case in point, and it is well known that some of the largest exporting firms who have done business with South America for a great many years, have had fewer orders and more cancellations since Aug. 1 than in any like period for a number of years.

The Allegheny Foundry & Machine Co. has recently opened an office in the Oliver Bldg., Pittsburgh, to take care of the increasing business. A large machine shop and pattern loft were recently added to the plant of the company at Glassmere, Penn.

CATALOG NOTICES

Lehigh Car, Wheel & Axle Works, Catasauqua, Penn. Catalog No. 50. "Fuller Quality" face hardened sprocket and traction wheels, chilled charcoal iron castings. Illustrated, 62 pp., 6x9 in.

Consolidated Expanded Metal Co., Rankin, Penn. Bulletin. "Tests." Steelcrete mesh. Illustrated, 5½x8 in.

Smooth-On Mfg. Co., Jersey City, N. J. Folder. Smooth-On iron cement No. 7, used for waterproofing, dustproofing and hardening concrete in large bakery. Illustrated.

Link-Belt Co., Chicago, Ill. Book No. 124. Steel chains and sprocket wheels. Illustrated, 40 pp., 6x9 in.

Coffin Valve Co., Neponset, Boston, Mass. Catalog. Sluice gates, gate valves, gate hoists, sewer gates, etc. Illustrated, 8 pp., 9x12 in.

Builders' Iron Foundry, Providence, R. I. Bulletin No. 84. Venturi meter for gravity main, pump discharge line, filtration plant, sewage disposal system, etc. Illustrated, 36 pp., Bulletin No. 85. Venturi hot water meter. Illustrated, 20 pp.